The Journal of the American Medical Association

Published Under the Auspices of the Board of Trustees

VOL. 86, NO. 26 CHICAGO, ILLINOIS JUNE 26, 1926

THE INFLUENCE OF UROLOGY ON LONGEVITY *

B. A. THOMAS, M.D.
PHILADELPHIA

The pessimistic Euripides states that "not to be born is best, and next, to die as soon as possible." Unfortunates, therefore, as human beings we exist, irrespective of our responsibility for our presence; but, contrary to the philosopher's advice, it seems to be a fundamental trait of human nature to want to live as long as possible, and man and medicine have ever striven to promote the public health and lengthen the span of life.

What should be the normal span of life? Dr. Darlington [1] tells me it is very doubtful whether the prevalent idea of three score and ten years, taken from the prayer of Moses,[2] should be our goal, since there is better biblical authority [3] "that a man's days shall be a hundred and twenty years," that every one dies prematurely, that no one dies of old age, and that even Methuselah, the oldest man, was drowned in the flood. That life expectancy has been and is steadily being lengthened is well supported by the investigations of preventive medicine and applied sanitary science. Indeed, it would appear from Carrel's experiments that cells are immortal; and recent studies with foods, vitamins and enzymes in animals indicate that the duration of life may be tripled. Apropos of longevity in the past, present and future, it is significant to note that for centuries before and after the time of King Tut, down to the discovery of America, the average length of life was eighteen years; at the time of the French Revolution it had increased to 33 years; at the time of our own Civil War it had advanced approximately to 45 years; at present it is about 57 years, and the longed for 70 may be reached within the next fifty years, maintaining the present ratio of medical progress.

What are the factors that have contributed most toward this remarkable improvement in vitality? In their order of importance they may be stated to be: (1) medical research and discoveries, e. g., vaccination against smallpox, bacterial origin of diseases, transmission of disease by vermin and insects, animal experimentation, study of anatomy, discoveries relative to tuberculosis, syphilis, diabetes and nephritis; (2) preventive medicine, including personal hygiene, sanitation, public health organizations and life extension centers, and (3) advances in medical and surgical diagnosis and treatment, particularly specialism and group clinics.

It is well known that the annihilation of certain of the scourges, epidemics and famines that were visited on mankind in ancient and medieval times played the most important rôle in materially lengthening life expectancy. It is also true that most of the twenty years added to longevity during the past century is the result of child hygiene and reduced mortality up to the age of 5. However, ten of these added years have been contributed during the last two decades, and I am not at all inclined to attribute the result entirely to preventive medicine. Unfortunately, figures are not available, nor can they be compiled at present, to show the part actually played by the marvelous advances in clinical medicine and surgery so far as the conservation of health and life is concerned. There are many reasons to indicate why life has been prolonged ten years in the past twenty or thirty, although only recently has there been a gain in life expectancy at the age of 50. Among impaired lives between the ages of 40 and 60, there has been a mortality reduction of 67 per cent. Obviously, it is just as impossible today to state in figures the proportionate rôle played by urology and clinical medicine as it is to compare accurately preventive and clinical medicine so far as their influence on longevity is concerned. That urology has exercised a definite important influence certainly cannot be denied, particularly in remembrance of the fact that, in the entire realm of medicine, there is no part or specialty in which diagnosis and treatment, by virtue of new inventions and discoveries, are more precise, satisfactory and complete.

In what respects has urology played its rôle and been an important factor in the prolongation of life?

The history of urology is one of the, if not the, most interesting and fascinating in the whole progress of medicine, and has been well portrayed by Gross,[4] the greatest of American surgeons and father of American urology, Smith,[5] Guiteras,[6] Young,[7] Martin,[8] Moore [9] and others. The names of Bossini, Civiale, Bright, Rayer, Simon, Hunter, Désormeaux, Thompson, Gross, Van Buren, Bigelow, Mercier, Guyon, Maisonneuve, Nitze, Casper, Israel, Brenner, Kelly, Rovsing, Otis, Brown, Albarran,[10] Richter, Zuckerkandl, Keyes,

* Chairman's address, read before the Section on Urology at the Seventy-Seventh Annual Session of the American Medical Association, Dallas, Texas, April, 1926.

1. Darlington, Thomas: Personal communication to the author.
2. Psalm XC, verse 10.
3. Genesis, Chapter VI, verse 3; Chapter V, verses 25, 26, 27, 28; Chapter VII, verses 6 and 11.
4. Gross: On the Urinary Organs, 1851.
5. Smith: Operative Surgery **1**, 1855; Chirurgie, in Dictionary of Greek and Roman Antiquity.
6. Guiteras: New York M. J. **76**: 617 (Oct. 11) 1902; Urology, 1912.
7. Young, H. H.: South. M. J. **9**: 146 (Feb.) 1916; Practice of Urology, 1926.
8. Martin: Urol. & Cutan. Rev., April, 1918.
9. Moore, T. D.: J. Urol. **10**: 99 (Aug.) 1923.
10. Albarran: Ann. d. mal. d. org. gen.-urin. **24**: 1760-1787, 1906.

Belfield, Voelcker, Cathelin, Chute, Cabot,[11] Cunningham, Young, Lewis, Squier, Buerger, Gunner, Geraghty, Legueu, Marion, Chevassu, Papin, Hinman, Kretschmer, Quinby, Bugbee, Caulk,[12] Braasch and many others represent strides in the development of our specialty, from the days of old when it represented all genito-urinary diseases, until its recent coronation as urology. Each recalls inventions, discoveries, research or valuable additions to surgical technic that have promoted the successful treatment of diseases of the urogenital tract, rendered surgery safe and ever safer for humanity, reduced mortality, and thereby lengthened longevity. Schmidt [13] rightly observes that progress in urology is to be measured by outstanding scientific discoveries and their influences rather than by dates or periods. Thus, by the invention of the urethroscope and cystoscope, instruments that have revolutionized urology in the last fifty years, the results, directly, in our specialty—namely, the visualization and accurate diagnosis even by photography and biopsy, if necessary, and treatment of lesions of the urethra and bladder; catheterization, diagnosis and differential diagnosis and treatment of kidney diseases; pyelography and ureterography; dilation of the ureter for strictures and calculi; intravesical operations, as ureterotomy, excision of bars, removal of foreign bodies, fulguration of tumors and implantation of radium—have been far reaching and almost incredible, and have exerted a truly incalculable effect on mortality reduction. Indirectly, we see daily the influences of the endoscope and cystoscope in many other specialties, as the pharyngoscope, bronchoscope, gastroscope and proctoscope.

Other milestones in the development of urology that deserve especial mention and have made possible its present state of excellence, whereby urologic diagnosis and treatment have been materially refined, morbidity reduced and mortality greatly lowered, are the discovery of the germ origin of disease, surgical antisepsis and asepsis, for without the latter cystoscopy and ureteral catherization would not have been tenable; roentgenology as applied to urology, including cystoradiography, ureteroradiography, pyeloradiography and pneumoradiography; epoch making researches and discoveries in pathology and bacteriology; functional kidney diagnosis; blood chemistry; immunology; serology, chemotherapy; diathermy and narcosis as applied to local infiltration, and the various modalities of spinal anesthesia.

Improvements in surgical technic, including preoperative and postoperative care of patients, have resulted in a tremendous conservation of life. For a full appreciation of this fact, a brief review of the past and present operative results for the more important genito-urinary diseases should be convincing. Deaths in Philadelphia from 1916 to 1925 inclusive from all causes decreased from 1,615.72 to 1,316.13 per hundred thousand, or 18.5 per cent; during the same period, for genito-urinary diseases alone, the decrease was from 175.81 to 129.69, or 26.2 per cent. This is a very commendable comparative showing for genito-urinary diseases, and seems to be in conformity with the progress of the specialty the last seventy-five years, as I shall try to show.

The treatment of stricture of the urethra by dilation is of great antiquity, and even today among the Thlinket Indians of Alaska and British Columbia in certain localities, employing a willow stick, constitutes the only method. Although Paré, in the sixteenth century, improved the technic of stricture operations, and Wiseman did the first external urethrotomy in 1652, and Physik produced his "stylet" for cutting strictures in 1795, treatment by cauterization and bladder puncture by the rectovesical, perineal and suprapubic routes as late as 1855 was practiced, with a mortality of from 7 to 11 per cent. This would have been much higher if cases of periurethral abscess, extravasation of urine and fistulas had been included. In 1908 the advancement in the treatment of stricture is well represented by the statistics of Watson and Cunningham;[14] namely, 0.5 per cent for gradual dilation, 1.1 per cent for internal urethrotomy, and from 1.56 to 4.9 per cent for resection or combined internal and external urethrotomy.

The best figures for orchidectomy in the past, for testicular tumors, are 19 per cent cures in the collected statistics of Chevassu.[15] Recently, Hinman has reported 35 per cent for his radical Wertheim operation.

Smith, in 1855, referring to the operation of Gross, who revived and successfully performed, eight times, the old operation of Celsus for varicocele, asserted that there was less risk of erysipelas of the scrotum than from Velpeau's operation, while the "compression method of Breschet resulted in death in several instances." Today the operation is a simple affair with practically no mortality, and varicocele is no longer even an absolute disqualification for military service.

A few decades ago, Segond reported a mortality of 29.8 per cent in 114 cases of abscess of the prostate. It is difficult to correlate this with the extremely low—less than 5 per cent—death rate at present.

Although Cole in 1884, in America, was first to perform prostatectomy (perineally), it remained for Belfield, McGill, Goodfellow and Fuller to establish the operation on a firm basis. As late as 1887, Thompson stated that successful prostatectomy was unknown. In 1886, Ashhurst [16] said "There is nothing to be done surgically, nor is excision a procedure to be advocated"; also, when complicated by calculus, "if lithotomy or lithotrity be done, regard should be had to the possibility of removing both of these causes of annoyance by the same operation." In the light of our present knowledge, is it any wonder that up to twenty years ago the death rate ranged from 15 to 50 per cent, whereas today Young reports 3.4 per cent, Freyer 5.5 per cent and Liebig 7.4 per cent in the collected statistics of 7,565 operations, suprapubic and perineal? Forty years ago, Ashhurst spoke very skeptically of the treatment of median bars, although section had been practiced and recommended by Guthrie, Mercier, Teevan and Gouley. Today Young reports a mortality of 2 per cent in 355 punch operations, while Caulk reports no deaths at all from his cautery punch, and says that "30 per cent or more of obstructions can be relieved by this method, thereby reducing the number of prostatectomies, and lowering the general mortality rate of prostatic surgery."

In 622 cases of intraperitoneal and extraperitoneal rupture of the bladder, Watson and Cunningham, in 1906, found a mortality of 88 per cent from palliative and 46.7 per cent from operative treatment; today, the operative death rate should not exceed one tenth of this.

11. Cabot: Tr. Am. Urol. A., 1911.
12. Caulk, J. R., and Sanford, J. H.: J. Urol. **11**: 45 (Jan.) 1924; Value of Cautery Punch Operation in Removal of Vesical Neck Obstruction, J. A. M. A. **83**: 1993 (Dec. 20) 1924.
13. Schmidt: Surg. Gynec. Obst. **40**, June, 1925.
14. Watson and Cunningham: Genito-Urinary Diseases, 1908.
15. Chevassu: Rev. de chir., 1910, p. 628.
16. Ashhurst: International Encyclopedia of Surgery **6**, 1886.

During the last thirty years, the death rate from diverticulum of the bladder has decreased from 80 to 8 per cent.

Since the third century B. C., when Ammonius performed the first lithotripsy, and the dawn of the Christian era, when Celsus described the first lithotomy down through the middle ages, when attempts were made to dissolve stones by various agents from gastric juice to goat's milk, not to speak of the much vaunted concoction of the notorious Johanna Stephens, who swindled the British parliament out of £5,000, and in spite of the astonishing results of the great lithotomists, the Colots and Frère Jacques, who cut for stone more than 5,000 times and was finally exiled from Paris because most of his patients died, and Cheselden, who could perform the operation in fifty-four seconds, the mortality in Gross' time ranged from 11.4 to 50 per cent. In 1908, in 33,869 collected cases, in which operation was done suprapubically, perineally or by litholapaxy, Watson and Cunningham reported the death rates 13.2, 10 and 2.4 per cent, respectively. During the last twenty years, in the best American clinics, the mortality for cystolithotomy has been reduced to less than 5 per cent.

Until very recently, the treatment of bladder tumors, even papillomas, was both the nightmare and the despair of surgeons. The introduction of cystoscopic fulguration in 1910 by Beer revolutionized the treatment of benign tumors, and has lowered the mortality from this particular type of vesical growths, constituting the majority, practically to nil. Although the treatment of carcinoma of the bladder, by partial or complete cystectomy, roentgen ray, diathermy and radium, thus far, has been disappointing and has not measured up to our hopes, something has been accomplished. Symptoms have been relieved and life prolonged from a few months to one or two or more years, in many incurable cases, as compared with a 100 per cent death rate a few decades ago. In an analysis of forty-three patients of my own, 13.8 per cent lived from three to ten years, and 10.3 per cent were alive and free of symptoms. The operative mortality was approximately 10 per cent.

Ureteral implantation into the sigmoid after the Coffey-Mayo technic promises a far reaching influence in the reduction of ascending renal infections, at the same time rendering possible surgical extirpation of the bladder and other pelvic viscera, thereby immeasurably affecting longevity.

From the time of Hippocrates, 460-357 B. C., who first "operated for calculi of the kidney by incision," until 1869, when Simon performed the first successful nephrectomy for calculous pyonephrosis and presented his epochal monograph on the surgical affections of the kidneys, renal surgery received little attention. Ten years later, Pilcher could find only fifteen cases of nephrectomy in the literature. In 1885, Gross reported a mortality of from 20 to 60 per cent for pyonephrosis, tuberculosis and tumor. In 1912, Guiteras reported a mortality of 10 per cent for nephrotomy and 30 per cent for nephrectomy, and stated that in tumor it might reach 50 per cent. Today a conservative estimate of the death rate from nephrectomy is from 5 to 10 per cent. At the Mayo Clinic, in 863 nephrectomies for tuberculosis, the mortality was 2 per cent, while Young reports an operative mortality of only 0.89 per cent in 112 patients.

Time forbids the further presentation of data, especially that bearing on the reduction of the death rate in chronic nephritis, as the result of organized health center work. Enough, surely has been stated to show that thousands of lives have been prolonged and spared by the progress of urologic surgery, nor is it necessary or possible, accurately, to set down comparative statistics with other factors or fields of medical or surgical endeavor to substantiate the fact.

The most potent force that has enabled urology to exert its influence on longevity has been its recognition as a specialty, whereby the public and the general practitioner have come to appreciate the significance and importance of certain symptoms and indications, and realize the value of prompt investigations and expert procedures. No specialty has struggled harder than ours to throw off the mysticism, dogmatism, ignorance and superstition of the past, and today the spires of urology scintillate high and magnificently in the heavens of the medical world.

The present day cry of "overspecialization" is fraught with great danger, second only to the attempts to subjugate urology to general surgery. Statistics as long as the eye can reach can readily be produced to prove the fallacy of this contention. However, common sense and the elimination of selfishness are all that are required. Cabot has aptly said, "The best results will fall to the surgeon who supervises from beginning to end the investigation and who applies the remedy, rather than to the operator, who may be eternally confounded by the error of an assistant." Division of responsibility, ofttimes, is bound to affect the best welfare of patients.

Two factors that are doing most and are destined to produce the greatest benefits in the future, so far as urology and its influence for humanity and longevity are concerned, are: first, fundamental, systematic, broad graduate instruction and training of would-be urologists, qualifying them for special major surgery, not merely cystoscopy and venerology; and, second, the creation in our hospitals of special wards or departments for urologic surgery, with a personnel of residents, interns, nurses and orderlies trained and assigned, at least temporarily, solely to that specialty. Then and only then will the best results be obtained. It is already universally recognized and true for other specialties, as orthopedics, pediatrics, ophthalmology, obstetrics and gynecology. It must follow for equally good and better reasons for urology.

1900 Spruce Street.

Microbe of Oroya Fever.—Oroya fever, or Carrion's disease, is a highly fatal infection endemic in certain regions of Peru. Its most striking clinical feature is a rapidly progressing severe anemia, associated with febrile reactions. In the erythrocytes of patients suffering from the disease, Barton found, in 1905, peculiar bacilliform elements, the specificity of which has been confirmed by Barton's subsequent observations and those of later investigators. Strong, Tyzzer, Sellards, Brues and Gastiaburu concluded that these bodies are of protozoan nature and proposed for them the name of *Bartonella bacilliformis*. Inoculation of cultures of *B. bacilliformis* into young rhesus monkeys induced intermittent fever lasting many weeks. Typical endoglobular forms of *B. bacilliformis* have been demonstrated in the erythrocytes of these animals. Intradermic inoculation of the culture into the eyebrows gave rise to highly vascular nodules, resembling the nodules of experimental verruga induced in monkeys by previous investigators. *B. bacilliformis* can readily be recovered in pure culture from the blood, lymph glands, spleen and nodules, and passages from animal to animal are easily carried on.—Noguchi, Hideyo; and Battistini, T. S.: *Science* **63**:212 (Feb. 19) 1926.

CONNOTATION OF CONSTITUTIONAL PSYCHOPATHIC INFERIORITY WITHOUT PSYCHOSIS

A STUDY OF FIVE HUNDRED DIAGNOSES *

JAMES H. HUDDLESON, M.D.
NEW YORK

Approximately 7 per cent of case histories in the neuropsychiatric outpatient department of Veterans' Hospital 81, New York, reveal a diagnosis of constitutional psychopathic inferiority or some synonymous term, made once or oftener during the last six years by attending specialists of the Veterans' Bureau and its predecessor in this field, the United States Public Health Service. The purpose of this study was to determine what diagnostic criteria were adducible in each case toward the conclusion that a constitutional psychopathy was present. The findings of thirty-three neuropsychiatrists are recorded in the series of 500 alphabetically consecutive histories.

Constitutional psychopathic inferiority without psychosis is employed here as a generic term to include the six classes of constitutional psychopathic states noted in the nomenclature; [1] viz., criminalism, emotional instability, inadequate personality, paranoid personality, pathologic liar and sexual psychopathy. (One more term, nomadism, is added to an otherwise identical list in a recent United States Army publication.[2]) The Public Health Service nomenclature formally separates constitutional psychopathic state from constitutional psychopathic inferiority, but the apparent interchangeability of these terms has made strict adherence to their differentiation rather doubtful in outpatient examining work. This issue is avoided by the introduction and common use in the case histories of an ambivalent phrase, "constitutional psychopath." One frankly equivocal diagnosis appears as "C. P. I. state."

A careful attempt to differentiate between the two terms has been made by Visher [3] as follows: "Constitutional psychopathic state is differentiated from constitutional psychopathic inferiority by the presence of such morbid manifestations as lie in the immediate foreground of insanity. . . . There is usually no history of marked industrial inefficiency or of antisocial conduct, and what gross maladaptation is present does not extend back to early life." Certainly this differentiation is difficult to make, even under the most favorable circumstances of study. Whether it is quite valid, e. g., whether sexual psychopathy, one of the constitutional psychopathic states, can be separated from constitutional psychopathic inferiority and construed as not extending back to early life, is questionable.

"Constitutional inferiority" was first introduced into American psychiatric terminology by Meyer [4] only two decades ago. Karpas,[5] after describing "psychic constitutional inferiority" in 1913 as the foundation of most if not all the psychoses, subjected it three years later [6] to a more minute analysis. In this he subtracted the group of intellectual inferiors, and three subgroups of emotional inferiors (individuals with shut-in personalities, manic-depressive make-ups, and hysterical and neurasthenic temperaments), leaving one emotional subgroup (including the crank, psychopath or "congenital psychoneurosis") and a final group of volitional inferiors. His discussion of volitional inferiority is chiefly concerned with delinquency. Goddard,[7] in 1921, carefully separated psychopathy with or without arrested development from arrested development alone. Two tendencies appear in the literature, first, toward distinguishing a class of psychotic and inferior personalities definitely from the mental defectives on the one hand and from the psychotics on the other, and, second, toward including progressively more of the delinquent types in this class.

The table gives the incidence rates of twenty-one characteristics. One finding of a given trait conditions a single entry, except for traits marked with the asterisk. The counting of a trait in one of these starred groups may be duplicated in other starred groups; that is, such groups overlap.

Incidence Rates of Twenty-One Characteristics

Classes of Characteristics		Characteristics	Incidence in Number of Cases	Incidence in Each 100 Cases
Physical manifestations	*a*	Anatomic stigmas	40	8
	**b*	Sexual anomalies	21	4
	c	Enuresis (after age 5)	11	2
	d	Onychophagia	12	2.5
	e	Stuttering and stammering	46	9
Addictions	*f*	Drug addiction	8	1.5
	g	Alcohol addiction	50	10
	h	Tobacco addiction	11	2
Traits suggesting manic-depressive make-up	*i*	Emotional instability	318	63.5
Traits suggesting manic and paranoid tendencies	*j*	Grandiosity and excessive self-esteem	102	20.5
Traits suggesting paranoid trend	**k*	Paranoid personality	90	18
Traits suggesting schizophrenic make-up	**l*	Metatopomania	97	19.5
	m	Polypraxia	240	48
	n	Working beneath mental capacity	9	2
Traits suggesting mental deficiency	**o*	Poor cooperation and refractoriness	179	36
	**p*	Unreliability (other than *q* and *r*)	157	31.5
	**q*	Conscious exaggeration of symptoms	207	41.5
Conduct disorders	**r*	Malingering (charged as such)	28	5.5
		Malingering suspected	11	2
	**s*	Truancy and A. W. O. L. tendency	74	15
	**t*	Trouble-making	95	19
	**u*	All conduct disorders	250	50

Taking up the characteristics in order, one notices, perhaps as a trend of the times toward rejecting Lombroso [8] and not yet assimilating Draper,[9] that anatomic features have received scant attention in the records of the psychiatric examinations surveyed. (*a*) Stigmas are noted in no more than 8 per cent of these case records, though they doubtless marked a considerably larger number of claimants. House [10] divides his constitutional psychopathic inferiors into two classes,

* Read before the Section on Nervous and Mental Diseases at the Seventy-Seventh Annual Session of the American Medical Association, Dallas, Texas, April, 1926.

1. Nomenclature of Diseases and Conditions, misc. pub. 16, U. S. P. H. S., 1921.

2. National Guard reg. no. 28, Dec. 31, 1924; AR40-105; §20, p. 93, June, 1921.

3. Visher, J. W.: A Study in Constitutional Psychopathic Inferiority, Ment. Hyg. **6**: 729 (Oct.) 1922.

4. Meyer, A.: Report of the Pathological Institute, New York State Commission in Lunacy, 17th Ann. Rep., p. 79, 1904-1905.

5. Karpas, M. J.: Psychic Constitutional Inferiority, New York M. J. **97**: 594 (March 22) 1913.

6. Karpas, M. J.: Constitutional Inferiority, J. A. M. A. **67**: 1831 (Dec. 16) 1916.

7. Goddard, H. H.: The Subnormal Mind Versus the Abnormal, J. Abnorm. Psychol. **16**: 47 (April) 1921.

8. Lombroso, Cesare: Criminal Anthropology, Its Origin and Application, Forum, September, 1895, p. 13; L'uomo delinquente, ed. 5, Turin, Bocca, 1896.

9. Draper, G.: Human Constitution, Philadelphia, W. B. Saunders Company, 1924.

10. House, W.: Constitutional Psychopathic Inferiority, California State J. Med. **21**: 26 (Jan.) 1923.

roughly "static" and "dynamic," in both of which the stigmas of degeneracy show a high incidence. No one of the classes in the Public Health Service nomenclature is quite coterminous with either of those. Most of House's static cases can be considered inadequate personalities, and his dynamic ones may be distributed among the other classes.

To the small category of (*b*) sexual anomalies, 4 per cent, have been referred both feminine (all of these cases were of males) secondary sex characters, and habits of sexual perversion. (*c*) Enuresis, found in 2 per cent, when it accompanies other suspicious symptoms, is likely to be included in the evidence for a constitutional psychopathy; similarly (*d*) onychophagia, with an incidence of 2.5 per cent. Much of (*e*) stuttering and stammering is referred to hysteria; enough still remains to be noted as evidence of an inferiority in 9 per cent of the series. The proportion of cases that show (*f*) drug, (*g*) alcohol and (*h*) tobacco addictions, respectively 1.5, 10 and 2 per cent, is comparatively small. Tobacco addiction is understood to mean a pronounced and excessive, not a moderate, tobacco habit.

(*i*) Emotional instability, with the highest incidence of all, 63.5 per cent, is a trait or rather group of traits that recalls the milder types of emotional insanity and mental deficiency, as well as some hysterias and anxieties. The emotional instability belonging to inferiority differs somewhat from a manic-depressive make-up. The "constitutional psychopathic personality" is the more comprehensive conception; furthermore, it means something pathologic: a "manic-depressive make-up" describes a personality that is not necessarily pathologic so long as a psychosis is not superadded.

Emotional instability is common to various psychoneuroses as well; of these, transference neuroses are less readily confused with constitutional psychopathic inferiority than are the narcissistic states. An acquired instability may conceivably be based on a relatively stable make-up, and should not lead to a hasty conclusion of constitutional psychopathy. Again, instability is but one part of a symptom-complex, the diagnosis of which cannot be expected to rest on that finding alone. The emotional abnormality exhibited by a well marked epileptic personality, for example, can typically be distinguished from the constitutional psychopathic picture. Clark [11] points out that "if it be true that in essential or idiopathic epilepsy there is a more or less definite make-up, a character type of supersensitiveness, egotism, poor adaptability, and a certain defect in the power for development of the emotional life as contrasted with the intellectual equipment per se, then . . . the absence of these stigmas . . . should make us hesitate before finally committing ourselves to a diagnosis . . . of essential epilepsy."

(*j*) A grandiose tendency and exaggerated self-esteem, part of a manic make-up, appear in 20.5 per cent. (*k*) Paranoid personality is found in 18 per cent; many of these individuals, if sufficiently analyzed, would prove to be of prepraecox types corresponding to certain of the "schizoids" of Brill; [12] but since they have not developed psychoses they are habitually grouped here. He explains that "the expression 'schizoid,' which gives the picture of schizophrenia in extreme forms, . . . designates a type of psychic being and psychic reaction which exists in a more or less pronounced form in every person. . . . In predisposed individuals these reactions [syntonic or schizoid] may become markedly enhanced and then result in a psychosis of either type. . . . A great many of them never go beyond a certain point with their schizoid tendencies."

Though close to the simple praecox category, (*l*) metatopomania, the tendency to wander from place to place, and (*m*) polypraxia, a similarly habitual wandering from one occupation or place of employment to another, are not pathognomonic of a deteriorating psychosis. In this series they are found mentioned as evidences of psychopathic inferiority in 19.5 and 48 per cent of cases, respectively. In exceptional cases, 2 per cent, (*n*) employment at occupations beneath the mental capacity has assisted in making the diagnosis.

(*o*) Poor cooperation and refractoriness to treatment is a sufficiently convenient and important administrative concept to be recognized, applying, as it does, to more than a third (36 per cent) of the constitutional psychopathic claimants treated. It does not pretend to approximate a unit character, and is found as often in mental deficiencies, and paranoid and hypomanic states. (*p*) Unreliability is almost as prevalent (31.5 per cent), and is similarly ill defined and suggestive of mental defect.

(*q*) Conscious exaggeration, noted in 41.5 per cent, contrasts with (*r*) malingering, in 5.5 per cent. The latter term, on the authority of Jones and Llewellyn,[13] should include exaggeration when this is conscious; but malingering is a "crime," and diagnosing it puts a burden of proof on the examiner that he will not be expected to assume without considerable deliberation.

Next to emotional instability, some form of (*u*) conduct disorder understood in its broadest sense is the commonest characteristic found, appearing in exactly half of the cases. This group includes all of three others (malingering, [*s*] truancy, and [*t*] trouble-making) and parts of four more (sexual anomalies, unreliability, conscious exaggeration, and refractoriness to treatment). The habitual disturbers and trouble-makers, constituting 19 per cent of this series, must often be placed at the same time in the paranoid personality group. Truancy is not infrequent and would probably have appeared oftener if it had been practical to obtain social service histories in all cases.

The diagnosis of "constitutional psychopathic state, criminalism" has been very rarely made, and "delinquency" never. Evidently it has been usual to consider antisocial manifestations as contributing to certain neuropsychiatric symptom-complexes, rather than constituting a principal disease. This brings up the whole question of "moral imbecility" and the difference between legal, ethical, sociological, psychologic and medical conceptions of antisocial conduct, so well delineated by Tredgold,[14] and exhaustively debated by Stoddart,[15] Shrubsall [16] and Burt.[17]

If a diagnosis of "no nervous or mental disease, delinquency," "no nervous or mental disease" or "delinquency" alone is made in a case showing delinquent

11. Clark, L. P.: The Diagnostic Importance of Recognizing the Absence of the Epileptic Make-Up in States Simulating Idiopathic Epilepsy, Boston M. & S. J. **177**: 915 (Dec. 27) 1917.

12. Brill, A. A.: Schizoid and Syntonic Factors in Neuroses and Psychoses, Am. J. Psychiat. **4**: 589 (April) 1925.

13. Jones, A. B., and Llewellyn, J. L.: Malingering, Philadelphia, P. Blakiston's Son & Co., 1918.

14. Tredgold, A. F.: Moral Imbecility, Proc. Roy. Soc. Med. London, Sect. Psychiat. **14**: 13, 1920-1921.

15. Stoddart, W. H. B.: Delinquency and Mental Defect, Brit. J. M. Psychol. **3**: 188 (Aug.) 1923.

16. Shrubsall, F. C.: Delinquency and Mental Defect, Brit. J. M. Psychol. **3**: 179 (Aug.) 1923.

17. Burt, C.: Delinquency and Mental Defect, Brit. J. M. Psychol. **3**: 168 (Aug.) 1923.

tendencies, the examiner will be clearly committed to the definite view that full responsibility exists. On the other hand, the diagnosis of "constitutional psychopathic inferiority" or "constitutional psychopathic state, criminalism" may be construed either as noncommittal, that is, a symptomatic diagnosis, or as committing the examiner to the conclusion that responsibility is relatively impaired because of the presence of a mental disease other than imbecility or psychosis; namely, constitutional psychopathic inferiority, then a [psycho] pathologic diagnosis.

In psychopathic inferiority with psychosis or with imbecility, irresponsibility may be referable to the psychosis or to the mental deficiency. Accompanying mental defect of the moron grade is frequent. Psychometric tests, made on many individuals in this series, show levels from that of a medium grade imbecile reaching the mental age of 5 (three cases), to that of a superior adult.

Crime to some examiners presupposes a morbid mental condition and therefore demands a medical diagnosis, though there is not quite that unanimity conceived of by Sands,[18] who holds that "the objective of all workers in the various phases of psychiatry is the consideration of all behavior disturbances as manifestations of a disease process, and the problem as medical." The including of "constitutional psychopathic state, criminalism" in the nomenclature does suggest that the case of an habitual criminal should not be diagnosed "no nervous or mental disease." Two such cases in this series have been called psychopathic on no other evidence than that of delinquency. The medical status of an occasional criminal is not necessarily settled. The question is still open whether all possible neuropsychiatric diagnoses of the case of a known criminal must be confined to the triad psychosis, mental deficiency and constitutional psychopathic inferiority or state, or whether a fourth diagnosis, no nervous or mental disease, is admissible.

A constitutional psychopath has been defined[19] as "one that does not possess and display the amount of kindliness, honesty, reliability, loyalty, independence, persistence, emotional control, and resistance to the development of psychotic episodes, average for his race and intelligence level; he need not be deficient in all these qualities, but his deviation from the normal is permanent and appears in his history as a developmental defect."

The following case histories are illustrative of the more commonly found characteristics:

CASE 1.—*Prewar.*—Admittedly he was a frequent truant from school; finally he left when in grade 5 B, at the age of 16. He was subject to fits of temper. He worked as a laborer and factory helper, continuing only for short periods at successive jobs; e. g., three months, one month, one month.

Military.—He was inducted, April 2, 1918, and discharged without disability, April 2, 1919. He stated that he spent three months in a hospital after being gassed, Sept. 27, 1918, and that cough and nervousness had persisted since.

Postwar.—He worked for brief periods as a shipping clerk. He was violent and abusive to his sister and his mother, whom he called a prostitute. He was granted training with pay by the Federal Board for Vocational Reeducation; he insisted on frequent trials of different types of training, taking successively sign painting, electric apparatus manufacturing, electric wiring, pen making, mechanical drawing and agriculture. In every place he paid little attention to work, but harangued other trainees and occasionally abused bureau officials and employers; he was often late or absent without leave, generally obstinate in refusing to follow directions, and domineering and disagreeable to his fellow trainees, failing in the task at hand but always claiming that he could succeed at something more complicated. Transfers and reinstatements in training were finally stopped after he had been treated more than liberally, and he spent the next two months idling about the bureau office, trying to cajole or browbeat the authorities into granting him further funds, without making any attempt to secure employment. He was a prolific letter writer, and in a loquacious letter to a bureau chief, he called the teachers who had endured so much from him "contemptible curs" and scornfully described his medical treatment on the same page with his claim that he had been refused all treatment. Physiotherapy had been arranged for him, which he refused to take. When psychotherapy was attempted, he tried to argue the medical examiner out of every approach he made. He spent recklessly the ample government money received while in training, saved nothing, and was irregular in paying his board bill. He refused to make any contribution to the maintenance of his mother, who was in need. He liked to be melodramatic with the Red Cross and other social workers, whose reports emphasized his exaggerated sense of his own importance. He was arrested four times for disorderly conduct.

He was repeatedly examined as a psychotic suspect, but no mania, paranoid state or other psychosis was ever diagnosed in his case. Psychometrically he measured of superior intelligence, with intelligence quotient 119. Physically he never showed more than a mild bronchitis, which he exaggerated to the utmost.

CASE 2.—*Prewar.*—In childhood, he was admittedly incorrigible at home; the school records showed him poor in studies and deportment, and difficult to discipline; he was bad tempered, and tried to strike the principal. He did not go beyond the eighth grade, though he claimed that he had finished high school at 15. He worked at odd jobs.

Military.—He enlisted, March 3, 1918, at the age of 16, which he gave as 18; he was discharged without disability, June 19, 1919, though he afterward claimed that he had had various sorts of "spells" after being "gassed" in France. Later he enlisted in the navy, from which he received a medical discharge for nervousness.

Postwar.—After his second discharge, he worked again at odd jobs, in a dance hall, driving a car for friends, etc. He went from place to place, living by his wits, and was hospitalized in different cities for vague and variable nervous complaints. He sought sympathy from one prospective employer by declaring that he had only one lung, when in fact he did not even have bronchitis.

He worked only two months, and was dropped for his lazy attitude. He was granted training with pay by the federal board; he had trouble with the training officers on account of his irritability, lack of interest, and thoroughgoing unreliability; he started in mechanical dentistry, transferred to dentistry, and then went back to mechanical dentistry.

He married hastily, lived with his wife only two days, and took the episode as a joke. She returned to her parents in three weeks on account of his abandonment and abuse. Afterward he talked bombastically of what he would do to her if he found her.

On examination, he would pull himself away from the examiner and hold himself rigid instead of cooperating. At one time he attempted to malinger epilepsy. He had no physical disease; he showed onychophagia, but little else objectively. He failed to keep his appointments for treatment.

When asked his age, he replied: "I've lied so much about my age, I don't know what it is." When asked why he left one city on one occasion, he gave three different conflicting reasons in the same conversation. His social service history was filled with notes on his habitual lying and trouble with every one.

CASE 3.—*Prewar.*—He had two years' high school education, followed by an evening commercial and a correspondence course. In view of his mental capacity and training, his

18. Sands, I. J.: The Psychiatric Clinic in the General Hospital, J. A. M. A. **85**: 723 (Sept. 5) 1925.
19. Anonymous.

spelling was poor. He worked as a traveling salesman. He was always restless and fidgety.

Military.—He enlisted, Oct. 7, 1917, at the age of 25, and was discharged without disability, Nov. 23, 1918. He did not go overseas and was not exposed to any stress other than an operation for a sacrococcygeal cyst.

Postwar.—He worked for a short time, and then claimed nervousness on account of the cyst, which was inconsequential; he demanded and obtained hospitalization, during which it was again operated on.

He was granted federal board training with pay, which he retained for three years, while constantly applying for transfer from one subject to another; he was given sign painting, photography, and four varieties of salesmanship training. Eventually his lack of cooperation and absences without leave caused the termination of his training; he then spent a long time trying to be reinstated, instead of trying to work.

On examination, he claimed severe incapacitating illness, physical and nervous, demanding treatment and more training, and in almost the same breath claimed that he was making more money in his prewar work than he would receive in training. He evaded direct questions, dilated glibly on diagnoses, and took issue with the examiner on the technical features of the neurologic examination. Most of his complaints were belied by his manner of relating them. He appeared to be in the best state of health when he complained most volubly. He took no interest in improvement, repeatedly missing his appointments for treatment.

CONCLUSIONS

1. Five hundred diagnoses of constitutional psychopathic inferiority and constitutional psychopathic states, by thirty-three neuropsychiatrists, have been based on a number of accepted symptoms and symptom-complexes of these conditions, emotional instability being the most frequent.

2. The diagnosing of constitutional psychopathic state, emotional instability, is unsound unless this instability is definitely shown to be a fundamental attribute, not one acquired in later life.

3. In the present state of medicopsychologic knowledge, constitutional psychopathic inferiority or state should be considered a symptomatic, not a pathologic, diagnosis.

4. Criminalism should be omitted from the list of constitutional psychopathic states, since crime and responsibility are problems still too disputed and too extensive for its boundaries.

230 Central Park South.

ABSTRACT OF DISCUSSION

DR. WILLIAM HOUSE, Portland, Ore.: There is urgent need for a more acceptable concept of the term "constitutional psychopathic inferiority," and the analysis presented by Dr. Huddleson is helpful to that end. But it deals only with males whose reactions have been influenced by military service and who, in many instances, are capitalizing natural weaknesses not at all the results of that service, to lessen the burdens of existence. The reactions of those to whom such opportunities are not open will produce many symptoms not on his list, as those occurring in women and peculiar to their sex, the nature of some of which may readily be inferred. Constitutional psychopathic inferiority may manifest itself long before military age, or, though it has been present from birth, it may escape detection until long past military age, with results which, naturally, Dr. Huddleson has not mentioned. One of the most important symptoms that first calls it to attention is lack of adaptability to changing conditions and environment. To comment on some of the symptoms discussed, metatopomania is perhaps no more frequent than its antithesis, and those who live a lifetime in one place, remote from the conveniences and comforts of modern civilization, often do so because inferiority has made it impossible for them to make any struggle for existence other than that of work, often poorly done, which requires little planning. Likewise, polypraxia is probably no more frequent than the reverse, that is, inability to escape from the rut of what, by way of contrast, might be called monopraxia; and a lifelong pursuit of a single kind of work that is unprofitable and uncongenial is often the result of lack of resourcefulness and adaptability, which makes change difficult or impossible. Even criminality as a possible symptom of inferiority has its opposite in those whose lives are rendered futile by overconscientiousness. My concept of a psychopathic inferior individual is that of one who is fundamentally, congenitally and usually inherently defective, from structural, as opposed to pathologic, incompetence, either in the quality of the materials of which he is made or in the faulty assemblage of his mechanisms, but whose defects do not reach the degree of feeblemindedness; who gets along fairly well if kept strictly within his limitations, but falls below the average in ability to reason and apply the results of reasoning pragmatically; who, as a rule, exhibits many stigmas, and who readily develops a psychopathy when subjected to unaccustomed strain. He is, in short, a kind of human "flivver," possessing many of the virtues of a "flivver," but developing its erraticisms when least expected and often at the most inopportune times.

DR. SIDNEY I. SCHWAB, St. Louis: I should like to ask Dr. Huddleson just what advantage there is in attempting to divide a material of that sort in so complex a manner. There are so many terms of doubtful meaning in his classification and some of the words are so difficult to understand and are susceptible of so many different interpretations that a confused idea may well result. A great many of the subdivisions and classifications are apt to be interpreted from a purely personal point of view; that is, the reader of the paper may know just what the terms signify, but the reader of or listener to the paper may have but little conception of their meaning. A minute classification does not necessarily add clearness to the conception of the subject. My criticism, simply stated, is that an intricate system of classification does not of itself throw any additional light on the meaning, interpretation or understanding of the subject.

DR. THEODORE DILLER, Pittsburgh: I endorse Dr. Schwab's criticisms. There is a great danger in complexity. We ought to be careful about being overcomplex. We are made fun of, in a way, by our colleagues about our overtechnicality, and there is great danger in all of these things. I doubt very much the value of such an elaborate classification as has been attempted by Dr. Huddleson.

DR. JAMES H. HUDDLESON, New York: In referring to Dr. House's criticism, we can say that there are a number of parallel circumstances that apply to military and industrial problems. Of course, the criticism that this paper does not include any observations on the female sex is perfectly correct; also, that it applies to more or less limited age groups among men. That criticism is perfectly justified as well. I agree in every way with Dr. House that stigmas should be mentioned oftener; but this paper is a compilation of the work of thirty-three different neuropsychiatrists, and in the examinations that were made by these men the presence of stigmas was not emphasized; it was rather minimized. Regarding what Dr. Schwab has said, that not much is added to the sum of human knowledge by the work that has been done, he is perfectly correct.

DR. SCHWAB: I did not say that at all. I was referring to my own incapacity to understand.

DR. HUDDLESON: The only feeling I had in regard to this was that it was a correlation of the findings of different neurologists, and it might be possible to arrive at an average of the different conceptions that were held by these different men. They all were working on the same problem, but from different points of view, as Dr. Schwab has said. It is not intended in any way to be the last word, and it is quite possible that in some ways the terms used are a little more complex than the trait that they are intended to depict. The interpretation of the findings for a given case was the inter-

pretation not of the compiler but rather that of the examiner who made that particular examination, with the idea in the compilation of averaging all these interpretations as far as possible. Metatopomania simply means moving from place to place.

CLINICAL TESTS OF THE OVARIAN FOLLICULAR HORMONE *

J. P. PRATT, M.D.
DETROIT
AND
EDGAR ALLEN, PH.D.
Professor of Anatomy, University of Missouri School of Medicine
COLUMBIA, MO.

The frequent complaints of disturbed menstruation brought to the clinician serve as a constant stimulus to him to seek the fundamental cause for these disturbances. In order to evaluate properly the disturbances of menstruation, one must first explain the normal periodic changes that occur in the genital organs. Up to the present time, explanations of these changes have lacked an extensive foundation of an experimental nature. There are, however, many observers keenly interested in the subject in both the laboratory and the clinic. From these sources valuable contributions are frequently appearing which bring nearer the final solution of the problem.

That the normal menstrual cycle is largely dependent on ovarian function is well established. The ovary cannot be considered alone, however, for evidences of interrelation of the ductless glands are ever present. The improved understanding of one gland aids the interpretation of the functions of others. The vastness of the work has been well expressed by Dr. Abel: [1] "Never before were there so many investigators, chemists, biologists, pathologists and clinicians engaged in one phase or another of this enormous subject. Already the usual output of special articles in this field numbers 3,000 per annum." For obvious reasons, therefore, no attempt will be made to review all the literature.

The isolation of chemically pure substances that represent the active principles of other ductless glands, such as epinephrine, thyroxin, pituitary extract and insulin, stimulates the hope that the ovary will also yield a similar product. The various extracts of the ovary prepared commercially are useful chiefly for their psychic effects. Experimentally, there is little evidence that watery or dried extracts of the ovary are potent. The results obtained from extracts made with lipoid solvents have, however, been proved effective in laboratory animals.

Iscovesco,[2] in 1912, used organic solvents to extract a hormone from the ovary which caused a certain amount of growth in the uterus of the rabbit. In 1914, Okintschutz [3] described the arrest of uterine degeneration after double ovariectomy by injections of ovarian extracts. In 1915, Herrmann [4] and Frank and Rosenbloom [5] reported the extraction of a hormone from the placenta and from corpora lutea of domestic animals. They also used growth in the uterus of test rabbits as a criterion of activity. Great emphasis was placed by these [6] and others of the earlier investigators of this problem on the corpus luteum as the principal ovarian source of this hormone, although consistently positive results were not always obtained.[5] In 1922, Frank [7] announced in a single paragraph in a critical review that injections of fresh liquor folliculi produced uterine growth in young rabbits in which the ovaries were still intact (four cases). This was published five years after the work was done. Due credit should be given Frank for these preliminary experiments.

In 1923, Allen and Doisy [8] published a preliminary report of results of injections of fresh liquor folliculi and extracts of liquor folliculi into rats and mice. In these experiments,[9] it was shown that injections of the follicular hormone caused growth in the vagina as well as in the uterus of these animals. A degree of growth equivalent to the maximum occurring in the normal animal was obtained by injections. This growth in the vaginal walls replaced a maximum reaction equal to that in a normal animal under the influence of the ovaries for the partial reaction of earlier workers. This reaction could be easily followed by several observations on the living animal, while formerly criteria of activity of extracts depended on a single observation at necropsy. Furthermore, these tests can be rigidly controlled. The clear-cut nature of the end-point of the rat and mouse tests made possible the definition of a quantitative unit for the standardization of extracts and measurement of the amount of active material present in different tissues.[10] A rat unit may be defined as the least amount of lipoid extract required to produce this reaction in the spayed adult rat. It was further demonstrated [9] that normal mating reactions occurred in these spayed test animals as a result of injections of the follicular hormone. These results were interpreted as a complete substitution with extracts for ovarian endocrine function in nonpregnant rats and mice. In these animals, at least, no specific secretion from the corpus luteum seemed necessary.

In extending this work, positive tests have been secured with extracts of isolated follicles or follicular contents from hen,[11] cow, pig, sheep and human ovaries. Only negative results were obtained from extracts of comparatively large amounts of corpora lutea of estrus and pregnancy from pigs and cows.[12] For these reasons, the active substance was called the ovarian follicular hormone.

Much recent work on this problem has been reported by Brouha and Simonnet,[13] Courrier,[14] Dixon,[15] Frank

* Read before the Section on Obstetrics, Gynecology and Abdominal Surgery at the Seventy-Seventh Annual Session of the American Medical Association, Dallas, Texas, April, 1926.

1. Abel, J. J.: Some Recent Advances in Our Knowledge of the Ductless Glands, Bull. Johns Hopkins Hosp. **38:** 1-32 (Jan.) 1926.
2. Iscovesco, H.: Les lipoides de l'ovaire, Compt. rend. Soc. de biol. **73:** 16-18, 1912.
3. Okintschutz, L.: Ueber die gegenseitigen Beziehungen einiger Drüsen mit innerer Sekretion, Arch. f. Gynäk. **102:** 333-410, 1914.
4. Herrmann, E.: Ueber eine wirksame Substanz im Eierstocke und in der Placenta, Monatschr. f. Geburtsh. u. Gynäk. **41:** 1-50, 1915.
5. Frank, R. T., and Rosenbloom, J.: Physiologically Active Substances Contained in the Placenta and in the Corpus Luteum, Surg. Gynec. Obst. **21:** 646-649, 1915.
6. With the exception of Okintschutz.
7. Frank, R. T.: The Ovary and the Endocrinologist, J. A. M. A. **78:** 181-185 (Jan. 21) 1922.
8. Allen, Edgar; and Doisy, E. A.: An Ovarian Hormone: Preliminary Report on Its Localization, Extraction, Partial Purification and Action in Test Animals, J. A. M. A. **81:** 819-821 (Sept. 8) 1923.
9. Allen, Edgar; and others: The Hormone of the Ovarian Follicle: Its Localization and Action in Test Animals, and Additional Points Bearing upon the Internal Secretion of the Ovary, Am. J. Anat. **34:** 133-182 (Sept.) 1924.
10. Doisy, E. A.; Ralls, J. O.; Allen, Edgar; and Johnston, C. G.: The Extraction of Some Properties of an Ovarian Hormone, J. Biol. Chem. **61:** 711-727 (Oct.) 1924.
11. Allen, E. W.; Whitsett, J. W.; Hardy, J. W., and Kneibert, F. L.: The Follicular Hormone of the Hen Ovary, Proc. Soc. Exper. Biol. & Med. **21:** 500-503, 1923-1924.
12. Allen and others (footnote 9). Doisy, Ralls, Allen and Johnston (footnote 10). Johnston, C. G., and Gould, V. L.: The Corpus Luteum as the Source of the Follicular Hormone, Surg. Gynec. Obst. **42:** 236-240, 1926.
13. Brouha, L., and Simonnet, H.: Effects of the Injections of Extracts of Follicular Fluid into Sexually Mature Females, Compt. rend. Soc. de biol. **93:** 557-558 (Aug. 14) 1925.
14. Courrier, R.: Le rythme vaginal du herisson: action de l'injection de liquide folliculaire, Compt. rend. Soc. de biol. **90:** 808-809 (March 28) 1924.
15. Dixon, W. E., and Marshall, F. H. A.: The Influence of the Ovary on the Pituitary Secretion: A Probable Factor in Parturition, J. Physiol. **59:** 276-288, 1924.

and Gustavson and co-authors,[16] Hisaw,[17] Murphy and co-authors,[18] Papanicolaou,[19] Allen, Dupré and Hartman,[20] Ralls, Jordan and Doisy,[21] Shaw,[22] Seckinger,[23] Laqueur and co-authors,[24] Steinach and co-authors,[25] and Zondek and co-authors.[26] These investigations are extending our knowledge of the subject so rapidly that no adequate attempt can be made in this paper to review them.

In quantitative measurements of active substance in human genital tissues,[27] a relatively large amount of hormone has been extracted from the placenta at several different periods of gestation. The contents of large follicles and corpora lutea have been removed from the ovary at operation and tested quantitatively as a beginning toward the establishment of the range of hormone secretion during the menstrual cycle. More than 7 rat units of hormone per cubic centimeter were obtained from follicular contents, as compared with more than 3.7 and more than 2 rat units per cubic centimeter from groups of several corpora excised at operations during the third and fourth weeks of the menstrual cycle, respectively. The finding of considerable amounts of the follicular hormone in human corpora is in decided contrast to our results from tests of corpora of cows and pigs.[28] This difference in hormone content of corpora is considered a probable causal factor in some of the differences between the menstrual cycle in primates and the estrual cycle in lower animals.[29]

The most striking difference is the occurrence of menstruation in primates, man and monkeys, for in no other animal is such a function found. The outstanding event of the estrous cycle in most mammals other than primates occurs at or near ovulation, while menstruation occurs midway between ovulations. The mating instinct of mammals at times of rut or heat is very intense, and it is sharply limited to a period of a few hours or days. In primates there seems to be no particular relationship between this instinct and ovulation. The changes in the external genitalia accompanying rut or heat are very striking in many animals, while in woman these changes are minimal during the varying phases of the cycle. These differences make a direct application of results from laboratory animals to human patients difficult. Therefore, an investigation was begun of the effects of injections of ovarian and placental extracts into monkeys.[30] A typical menstrual cycle occurs in monkeys.[31] In addition to the usual human menstrual phenomena there is marked reddening and swelling of the cutaneous regions surrounding the external genitalia.

A PRELIMINARY NOTE ON EXPERIMENTAL WORK ON MONKEYS

1. Two unfertilized ova[32] have been recovered from the fallopian tubes of two monkeys on the tenth and fourteenth days following the first appearance of the previous menses. Together with an unfertilized tubal ovum and a degenerating uterine ovum recovered by Corner, these quite definitely establish the time of ovulation, if it does occur during the cycle in question, in the latter half of the second week of the menstrual cycle. There is ample evidence that ovulation does not occur during many apparently normal cycles.

2. Removal of both ovaries or injury to large follicles[33] immediately after, or toward the end of, the follicular phase of the cycle was followed by apparently typical menstrual bleeding. These operative menses began on the fourth to the sixth day following the removal of ovarian hormonal influence. Reddening and swelling of the vulva and surrounding regions disappeared after double ovariectomy.

3. Thirteen series of injections of ovarian and placental extracts have been completed in five spayed monkeys.[34] From 64 to 190 rat units of hormone have been injected over intervals varying from nine to twenty days, two or three injections being given daily to insure nearly continuous action of the extracts. Typical reddening and swelling of the vulva and surrounding regions and reddening of the nipples have been induced. Disappearance of leukocytes and growth of the vaginal epithelium to the point of cornification have been indicated by smears of vaginal contents. Considerable growth has been induced in the uterus. In seven of ten series, bleeding followed discontinuance of injections in from three to seven days. The duration of these experimental menses varied from one to six days. The flow was scant but characteristic. No bleeding occurred during the period of injections, and none followed three series in an animal from which the uterus had been removed.

Histologic studies of the genital tissues involved and physiologic studies of contractions of the tubes are under way to check these results further.

16. Frank, R. T., and Gustavson, R. G.: The Female Sex Hormone and the Gestational Gland, J. A. M. A. **84:** 1715-1719 (June 6) 1925. Frank, R. T., and others: Demonstration of the Female Sex Hormone in the Circulating Blood: Preliminary Report, ibid. **85:** 510 (Aug. 15) 1925.

17. Hisaw, F. L.: The Influence of the Ovary on the Resorption of the Pubic Bones of the Pocket Gopher, Geomys Bursarius (Shaw). J. Exper. Zool. **42:** 411, 1925.

18. Murphy, H. S., and others: Oestrous Cycle in the Domestic Cow (Bos Taurus) and the Effect of Ovarian Extracts (Sixth Report), J. A. Vet. M. A., August, 1925. Case Reports on the Use of the Oestrual Hormone and Other Gland Extracts in the Treatment of Functional Sterility, ibid. **68,** 1926.

19. Papanicolaou, G. N.: The Production of Certain Distinct Types of Reactions by the Use of Ovarian Extracts, Proc. Soc. Exper. Biol. & Med. **22:** 106-108, 1924.

20. Allen, Edgar; Dupré, C., and Hartman, C.: Effect of Placental and Follicular Extract upon the Phenomena of Oestrus, with Special Reference to the Mammary Glands (Opossum) Anat. Rec. **32:** 226, 1926.

21. Ralls, J. O.; Jordan, C. N., and Doisy, E. A.: A Simplified Method of Preparation of the Ovarian Hormone and Some Properties of the Purified Product, to be published.

22. Shaw, W.: The Relation of Ovarian Function to Menstruation, J. Physiol. **60:** 193-207 (July) 1925.

23. Seckinger, D. L.: The Effect of Ovarian Extracts upon Spontaneous Contractions of the Fallopian Tube of the Domestic Pig with Reference to the Oestrous Cycle, Am. J. Physiol. **70:** 538-548 (Nov.) 1924.

24. Laqueur, E., and others: Ueber das Hormon des östrischen Zyklus II, Deutsche med. Wchnschr. **52:** 4-6; 52-55, 1926.

25. Steinach, E.; Henlein, H., and Wiesner, B. P.: Auslösung des Sexualzyklus, Entwicklung der Geschechtsmerkmale, reaktivierende Wirkung auf den senilen weiblichen Organismus durch Ovar- und Placentaextrakt, Arch. f. d. ges. Physiol. **210:** 598-611, 1925.

26. Zondek, B.: Experimentelle Untersuchungen über den Wert der Organotherapie, Ztschr. f. Geburtsh. u. Gynäk. **86:** 238-277 (July) 1923. Zondek, B., and Aschheim, S.: Experimentelle Untersuchungen über die Funktion und das Hormon des Ovariums, Arch. f. Gynäk. **127:** 250-292, 1925. Zondek, B., and Brahn, B.: Ueber Darstellung des Ovarialhormons in wässriger Lösung, Klin. Wchnschr. **4:** 2445-2446, 1925. Zondek, B., and Bernhardt, H.: Biologische Prüfung von Ovarialpräparaten, ibid. **4:** 2001-2005, 1925.

27. Allen, Edgar; Pratt, J. P., and Doisy, E. A.: The Ovarian Follicular Hormone: Its Distribution in Human Genital Tissue, J. A. M. A. **85:** 399-405 (Aug. 8) 1925.

28. This material furnished the source from which commercial extracts are prepared. Recently Frank and Gustavson have confirmed Frank's earlier occasional finding of active material in the corpora lutea of these animals. This seems possible if the corpora were excised from ovaries also containing large follicles, especially if the ovaries were not fresh.

29. Allen, Edgar: The Ovarian Follicular Hormone: A Study of Variation in Pig, Cow and Human Ovaries, Proc. Soc. Exper. Biol. & Med. **23:** 383-387, 1926.

30. This work has been assisted by a grant from the Committee for Research on Sex Problems of the National Research Council.

31. Heape, W.: The Menstruation of Semnopitheeus Entellus, Phil. Tr. London **185:** 411-471, 1894; The Menstruation and Ovulation of Macacus Rhesus, with Observations on the Changes Undergone by the Discharged Follicle, ibid. **188:** 135-166, 1897. Van Herwerden, M.: Beitrag zur Kenntnis des menstruellen Cyklus, Monatschr. f. Geburtsh. u. Gynäk. **24:** 730-748, 1906. Corner, G. W.: Oestrus Ovulation and Menstruation, Physiol. Rev. **3:** 457-482 (Oct.) 1923.

32. Allen, Edgar: The Time of Ovulation in the Menstrual Cycle of the Monkey Macacus Rhesus, Proc. Soc. Exper. Biol. & Med. **23:** 381-383, 1926.

33. Allen, Edgar: The Menstrual Cycle in the Monkey: Effect of Double Ovariectomy and Injury to Large Follicles, Proc. Soc. Exper. Biol. & Med. **23:** 434-436, 1926.

34. Allen, Edgar: Progress of Work on the Mechanism of the Menstrual Cycle of the Monkey Macacus Rhesus, Anat. Rec. **33:** 226, 1926.

From these experiments, combined with earlier ones in lower mammals, we are inclined to conclude tentatively as a basis for clinical tests that:

1. The ovarian follicular hormone starts the periodic growth processes in the female genital tract.

2. In case ovulation occurs, the corpus luteum in woman,[35] and perhaps in other primates, may continue this anabolic endocrine influence, which probably decreases as the next menses approach.

3. Menstruation seems to be partly due to the temporary absence of this secretion after it has been acting for a certain time.

4. But since ovulation followed by corpus luteum formation often does not occur, a specific secretion of the corpus luteum is not a necessary causal factor in the menstrual cycle. That the corpus luteum may possibly have a regulatory influence is not questioned.

5. This substance or a very similar one is probably secreted by, or stored in, the placenta. Its continuous availability throughout the gestation period would account for the absence of menstruation during pregnancy.

CLINICAL TESTS

Material Injected.—The ovarian follicular hormone injected into patients represented two kinds of preparations. Both were begun by extracting follicular fluid with lipoid solvents. One was a watery emulsion,[36] the other an oil solution of residues. The potency of these extracts was tested before their clinical use by injections into spayed rats. The strength varied from about 0.5 to 3.7 rat units per cubic centimeter. This material was injected subcutaneously in the deltoid region. No unpleasant reactions either local or general were experienced, with the exception of a transient burning sensation by watery emulsions at the site of the injection. The oil solution did not seem to call forth any local reactions, such as subcutaneous lumps.

In testing the effect of the follicular fluid in animals, the conditions necessary for satisfactory proof can be readily controlled. The animals selected can be of a suitable age, free from complicating disease, and the conditions of the experiment can be varied to suit the requirements. The difficulties are increased when these tests are applied to the human being: 1. There must be the cooperation of the patient.[37] 2. There must be no complicating disease. 3. The patient's build must be such that a satisfactory pelvic examination can be made without an anesthetic. 4. The conditions cannot be varied to suit the problem, but the material must be chosen from the rank and file of patients.

Although, as indicated above, there are many differences between the menstrual cycle of primates and the estrous cycle of other animals, there is one thing common to all, and that is the periodic growth and regression of the uterus in response to stimulation from the ovaries. In primates this regression is accompanied by the menstrual flow, in other mammals it is not.

In order to test the action of the follicular hormone on the human cycle, suitable individuals have been selected from time to time. The experimental nature of the work has been carefully explained to them. This has secured their cooperation to the extent that several have made trips to the hospital from a considerable distance twice a day. Some patients have felt benefited to such an extent that they have returned to ask a continuation of the treatment. Others have noted no improvement and have discontinued treatment before satisfactory conclusions could be arrived at.

Since the main problem has been to substitute extracts for diminished or absent ovarian secretion, an attempt has been made to exclude complicating diseases or disturbances of the other ductless glands. Out of many cases that have been considered, the following groups have been chosen: 1. Artificial menopause. 2. Natural menopause. 3. Primary amenorrhea. 4. Scanty menstruation. 5. Immaturity.

Artificial Menopause.—The condition that most closely simulates the animal experiments is the artificial menopause following removal of ovaries with the uterus intact. The following case report typifies this group:

Mrs. I. D., aged 36, had had four pregnancies. The menstrual cycle was regular, twenty-eight days, until both ovaries were removed one year previous to the injections. There had been no menstruation since the operation. There had been some nervousness and recurrent hot flashes. She also complained of painful breasts. A series of two injections a day for twenty-three days was given. Each dose represented 0.5 rat unit. After the third day the patient noted some feelings of pressure in the pelvis. This feeling of pressure gradually increased throughout the series of injections. There was also a very evident change in the circulation of the uterus, as on inspection before the injections were begun the cervix was small, atrophic and pale, but as the injections proceeded the color of the cervix changed as the circulation improved, becoming red to purplish. Also on inspection the size of the cervix was noted to increase. With bimanual palpation the fundus was found to enlarge until the end of the injections, at which time it seemed nearly twice the size that it was before the injections were begun. As the fundus enlarged, the patient stated that she felt the same symptoms that she formerly experienced as menstruation was approaching, a sense of pressure particularly noticeable on the left side and also in the bladder. The objective symptoms of enlargement were unquestionable. It is quite probable that one should discount some of the subjective symptoms, as the patient was somewhat nervous and was probably unduly impressed by the sensation of returning menstruation. She even mentioned that on the seventeenth day of injections she noted certain nervousness and forgetfulness which almost amounted to mental confusion, which she then recalled had been present with each menstruation for the four or five years preceding the operation that brought about the menopause. Also she noted an increased tenderness in the mammary glands, which often occurred previously with former menstruations.

The consistency of the uterus when the injections were begun was very firm. As the enlargement proceeded, there was some softening. At no time was there any flow. The patient was very slight and bimanual examination easily accomplished, so that we feel an estimate of the change in the size of the uterus is quite fair even though no absolute measurements could be made. This increase in the size of the uterus was checked by disinterested observers.

Five series of injections in women with artificial menopause have been made. All these patients have been in the third decade of life. The interval between the removal of the ovaries and the injection has varied from two months to two years. In each case, examination of the patient before the injection has shown atrophy or involution of the uterus which follows loss of the ovaries. The dosage used has been from 0.5 to 3 rat units morning and evening daily for two or three

35. Allen, Pratt and Doisy (footnote 27). Footnote 28.

36. This material was supplied by Parke, Davis & Company.

37. In the summer of 1923, preliminary clinical tests of solutions of hormone in oil were begun by the junior author in collaboration with Dr. O. U. Newell of the gynecologic clinic at Washington University School of Medicine. Injections were begun in seven different patients. Only two of the seven were willing to continue treatment to the point at which results seemed worth while. Daily injections over a period of two weeks in summer time become tiresome, especially when the malady is not fatal. Because of the subjective nature of much of the evidence these preliminary results were not published. Later more thorough work has supplied better evidence establishing most of the results of these preliminary tests.

weeks. The results obtained in this group have been fairly uniform.

Objective Criteria Noted: A few days after the injections were begun, an increase in the size of the uterus was noted. This growth continued for several days. During the latter days of the injections over the period of from two to three weeks, the rapidity of the growth was less noticeable. As soon as the injections were stopped the uterus diminished in size, returning in a few days to the size noted before the injections were begun. At the height of growth there was some change of color in the cervix seen through the vaginal speculum, the cervix showing a definite increase in the amount of circulation. On two different occasions following the cessation of the injections, a very small streak of blood appeared. Because of the momentary duration of this, we hesitate to call it menstruation. The growth was determined by bimanual pelvic examinations.

Subjective Criteria: The patients noted also the increase in the size of the uterus because they all mentioned the feeling of pressure and heaviness in the pelvis which they had formerly experienced, especially at the time of menstruation. Many other subjective symptoms were noted, but these must be greatly discounted on account of the patient's desire to have the symptoms reproduced.

Natural Menopause.—The outstanding features associated with a natural menopause are the "hot flashes" and nervousness. Since these are subjective symptoms, they do not offer an especially good test for the effects of the follicular hormone. However, it seemed advisable to try a certain number of cases of this sort for the sake of comparison with the other types of ovarian disturbance. Several patients of this group have been treated with injections. All of them have reported improvement in both the nervousness and the hot flashes. The following case report typifies this group:

Mrs. K. D., aged 47, had had symptoms of hot flashes, nervousness, and pains in the breast for somewhat more than a year, the hot flashes occurring about five in twenty-four hours. After five daily injections of follicular fluid containing about 0.5 rat unit each, the patient noticed a diminution in intensity of the hot flashes and also some improvement in the painful breasts. With the next five doses there was a distinct decrease in the intensity and in the number of the hot flashes, and there was also experienced an improvement in the condition of the breasts and general nervousness. At this time daily doses were given over a period of a week which had no potency; this fact being discovered later. The patient complained during this week that her old symptoms had returned. As soon as the discovery was made that the injections were impotent, the change was made to a known solution containing 0.5 rat unit for each injection. Within a few days the hot flashes disappeared and the patient's general condition improved. With the cessation of treatments at the end of three weeks, the hot flashes gradually reappeared; but in a period of four months they have not returned to the same frequency or intensity that they were before the injections were begun.

It must be remembered in interpretation of the influence of the hormone in cases of natural menopause that all the symptoms considered are subjective. In addition to the case cited above, several other patients were given these follicular injections. It was found that it did not require a very high dosage to modify the symptoms in this group of patients.

Primary Amenorrhea.—The third group of persons in whom the injections were tried may be spoken of as having a primary amenorrhea, that is, they have passed the age of 20 without yet having menstruated. While it is impossible to separate the influence of various ductless glands, as far as could be determined, we have excluded those that show a definite hypofunction of either the thyroid or the pituitary. The basal metabolism has been normal. These subjects have all been hard to check on account of the lack of development of the pelvic organs, making an accurate pelvic examination somewhat difficult. In this group of cases there have been five series of injections varying from two weeks to two months, once a day to three times a day. The total number of rat units varied from 15 to 90. In this group there has been a definite but slight amount of growth with the larger doses, but no sign of menstruation in any case. No subjective symptoms were noted.

Scanty Menstruation.—In this group there have been six series of injections. The patients chosen have been in the second or third decade. In all of them the menstruation had been irregular either in interval or in amount since its onset. One of these cases is of unusual interest in that two years previous to the present study she had been given thyroid extract by mouth with resulting increased frequency of menstruation, but in very scant amount. The following case typifies this group:

Miss A. C., aged 31, started to menstruate at the age of 13. She was irregular from the start. The average interval was two months, and the duration never over three days. This continued until the age of 18, at which time the menstrual periods became more irregular with gradually diminishing amount at each flow. At the age of 27 the average flow was about three or four times a year. At this time the patient was given thyroid extract by mouth over a period of many weeks. During this therapy she came to menstruate every month for a period of six months, but with no particular increase in the amount. The thyroid extract was discontinued. The menstruation again became irregular. The year preceding the present series of injections, the patient had menstruated twice. She was given one injection a day of 1 rat unit for five days. Following this she flowed about twice as much as at the previous period some eight months before. The injections were begun again about twelve days after the menstrual flow was established. Following injections of the fluid for eleven days, the flow was reestablished. There was a slight increase in amount over the one previous. The injections were then discontinued for another twelve days and begun again and at the same interval the menstrual flow appeared. This flow was, as the patient stated, "the most like what I have heard other people say was a normal menstruation—more than I have ever menstruated at one time in my life."

This patient is of especial interest on account of the menstruation having been apparently influenced by thyroid extract and at a later date by the follicular hormone, showing the possibilities of interrelation of the ductless glands. The conditions found in this patient do not meet ideal experimental conditions in that ovaries of some sort are still present in the subject. However, there seems to be a very direct cause and effect. Further study will be necessary in this particular case to check the influence the hormone may exert.

Immaturity.—In the animal experiments, one of the striking tests has been the hastening of sexual maturity so that the estrous cycle becomes established much earlier in injected animals than in controls. There has been no justification in human beings to reproduce this test in normal persons.

SUMMARY

Injections of ovarian follicular hormone into primates, monkeys and human beings, from which ovaries

have been previously removed, produce growth in the uterus.

Removal of the ovarian follicular hormone by oophorectomy or cessation of injections brings on menstruation in monkeys.

Uterine growth and accompanying subjective symptoms similar to those previously experienced at time of menstruation have resulted from injections into patients whose ovaries have been previously removed. No bleeding approximating that of normal menstruation has as yet appeared in women.

In one case of scanty and irregular menses in which the ovaries were still intact, a definite increase in flow and regularity has resulted from injections of the hormone.

ABSTRACT OF DISCUSSION

DR. ARTHUR H. CURTIS, Chicago: I should like to know the technic employed in the preparation of the hormone.

DR. M. I. SMITH, Pearl River, N. Y.: I wish to ask the speaker whether larger doses of the hormone might not have been more effective in his clinical cases. As I understand it, from a half to one unit is a very small dose and is hardly sufficient to bring about results in the experimental animal. It seems to me that the human being ought to get in proportion a larger dose.

DR. J. P. PRATT, Detroit: The preparation of the ovarian follicular hormone has been given in detail elsewhere. For this reason details have been omitted in this paper. The hormone may be extracted from the ovarian follicles, human corpus luteum or placenta. It has been sufficiently purified for injection into human beings without the slightest reaction. Some patients have had a series of at least twenty-four injections in one location without any reaction. The dosage used has been small. It is hoped that the hormone will be later available for clinical use. It is desirable, for this reason, to determine the minimum dosage necessary as the preparation is still an expensive process. There has been some difficulty, up to the present time, in concentrating the hormone so that larger doses can be given without necessitating the injection of a large amount of fluid. So far only doses of 1 cc. of fluid have been used. Now that the concentration has been increased, the reactions are more prompt and more striking. It is quite possible that other results will appear with the injection of larger doses.

Tuberculin Prepared from Nonprotein Substrates.—It has been shown for the first time that small amounts of tuberculin fractions prepared from protein-free synthetic substrates are capable of sensitizing normal, nontuberculous guinea-pigs. In these animals, typical skin reactions can be elicited subsequently by intracutaneous injection of minute amounts of homologous as well as heterologous fractions and of unfractionated tuberculin from which such fractions have been prepared. Clinical trial of these fractions in juvenile patients has demonstrated for the first time that the substances have diagnostic value. Positive skin tests were perfectly correlated with positive clinical and laboratory findings of tuberculous infection. Such was not the case for ordinary old tuberculin in more than 20 per cent of young patients in a group of 150 who were studied routinely. In a number of instances the observations suggested that the reactions might be correlated with the degree of activity or with arrested tuberculous infection. These studies point to a method which makes an accurately standardized tuberculin available for routine clinical work. It is believed that the active principle of tuberculin can best be isolated by this or by a similar method. The observations on sensitization suggest that these may be applied to studies of immunity, and by extension, to therapeutic studies in the experimental animal. Such work, now in its third year of progress, will be reported in the future.—Eberson, Frederick: *Proc. Soc. Exper. Biol & Med.* **23**:511 (March) 1926.

PERIARTERIAL SYMPATHECTOMY *

R. W. McNEALY, M.D.
CHICAGO

[EDITORIAL NOTE.—This paper, together with the paper by Drs. Cutler and Fine, which follows it, concludes the symposium on "Sympathectomy." In our last issue we published the three papers by Drs. Forbes and Cobb, Dr. Ranson, and Drs. Davis and Kanavel.]

Periarterial sympathectomy has been widely practiced during the last few years. Dealing as it does with a surgical attack on that enigmatic portion of our anatomy the sympathetic or autonomic nervous system, it has had the stimulating effect so commonly generated by research activities in comparatively unknown fields. The application of periarterial sympathectomy, or periarterial histonectomy, as Schilf [1] prefers to designate the procedure, as surgical therapy has evoked many pertinent questions as to the correctness of the physiologic hypothesis on which it is founded.

The first person to perform periarterial sympathectomy was Jaboulay,[2] who in 1889 removed the periarterial tissues from the femoral artery for the cure of certain perforating ulcers of the foot. The operation lapsed into obscurity until 1913, when Leriche [3] published an article on the removal and sectioning of the perivascular nerves in certain painful syndromes of arterial origin and in some trophic disturbances. Since this first paper, he has contributed many articles reporting his results with this operation in the treatment of various disorders of supposedly neurovascular origin.

In 1921, Leriche [4] described the effects of the operation, reviewed his observations and researches, and reported the results in sixty-four cases in which operation had been performed. This seemed to fire the imagination of surgeons everywhere, with the result that one now finds surgeons performing the operation for the most bizarre group of vascular disturbances. Leriche at various times has suggested its applicability in the treatment of Raynaud's disease, erythromelalgia, causalgia, trophedema, trophic ulcers, painful amputation stumps, ischemic sequelae, varicose ulcers, varicose eczema, intermittent claudication, thrombo-angiitis obliterans and disorders of the Babinski-Froment type. Recently there has been added to this somewhat related group such conditions as ununited fractures,[5] acute infections of the extremities,[6] tuberculous lesions of bone,[7] leprosy,[8] acute osteomyelitis [9] and pelvic disturbances in the female.[10] Anatomically, the field extends over practically every approachable vessel where denudation is practiced for the relief of local or neighboring pathologic conditions.

Publications dealing with the anatomy and physiology, case reports and modifications of technic of the operation have been appearing in considerable

* Read before the joint meeting of the Section on Surgery, General and Abdominal, and the Section on Nervous and Mental Diseases at the Seventy-Seventh Annual Session of the American Medical Association, Dallas, Texas, April, 1926.

1. Schilf, E.: Innervation of Vessels of the Extremity, Deutsche med. Wchnschr. **50**: 1299 (Sept. 19) 1924.
2. Jaboulay, quoted by Leriche (footnote 3).
3. Leriche, R.: Removal and Sectioning of Perivascular Nerves in Certain Painful Syndromes of Arterial Origin and in Some Trophic Disturbances, Lyon chir. **10**: 378, 1913.
4. Leriche, R.: Periarterial Sympathectomy, Ann. Surg. **74**: 385 (Jan.) 1921.
5. Kappis, M.: Periarterial Sympathectomy, Klin. Wchnschr. **2**: 1441 (July 30) 1923.
6. Rubaschow, S.: Periarterial Sympathectomy in Delayed Union, Zentralbl. f. Chir. **52**: 635 (March 21) 1925.
7. Läwen, A.: Sympathectomy in Tuberculosis of Extremities, München. med. Wchnschr. **71**: 191 (Feb. 15) 1924.
8. Black, K.: Treatment of Chronic Ulcers by Periarterial Sympathectomy, Brit. M. J. **2**: 165 (Aug. 2) 1924.
9. Ahrens, R.: Periarterial Sympathicolysis, Zentralbl. f. Chir. **52**: 11 (Jan. 3) 1925.
10. Cotte, G.: Sympathectomy in Gynecology, Presse méd. **33**: 98 (Jan. 24) 1925.

number both here and abroad. These writers have varied so widely in their results and have expressed such divergent views relative to the procedure that one feels it may be timely to attempt a critical review in tabloid form of the field, that the results of this operation may be properly interpreted and evaluated.

It is quite essential to establish first what is known of the anatomy and physiology of the portion of the sympathetic nervous system related to this operation. Further, it is hoped that this knowledge may serve to explain the clinical phenomena that follow the application of periarterial sympathectomy to peripheral vessels.

The operation was originally designed principally for an attack on those sympathetic dysfunctions of the vasomotor system which showed a predominance of vasoconstrictor action. Later the field of application was broadened to include conditions that might be benefited by active hyperemia which it was hoped could be brought about by a diminution in the normal vasoconstrictor tonus or by stimulation of the vasodilator elements.

The technic of the operation as practiced by most men consists in the isolation of a peripheral artery over a distance of from 8 to 10 cm. The vascular sheath or adventitia is divided longitudinally, and is then circumferentially dissected to effect a complete adventitial denudation of this sector of the vessel.

Following the stripping of the periarterial sheath there occur the following reactions, which appear quite constant and which most observers have been able to demonstrate to a greater or lesser degree, depending on the condition of the vessel and the manner and completeness of the operation: At the site of vascular denudation there occurs a primary contraction, which may reduce the vessel to one-third or even one-fourth its normal size. The pulse may disappear, but there is usually no interruption of the circulation. Following this initial contraction, in from three to fifteen hours there occurs a dilatation of the artery and a hyperemic condition of the extremity, with an increase of from 2 to 3 degrees of temperature, a feeling of warmth in the extremity, an increase in blood pressure, and dilatation of the capillary loops. This period of hyperemia lasts from a few days to several weeks.

While Leriche laid great stress on the completeness of the perivascular denudation over a considerable length of the vessel, other men have reported quite similar reactions following modifications of his technic. Novak [11] secured results from merely laying open the sheath of the vessel and freeing any adhesions in its circumference. Ahrens [12] has recently advised a blunt circumferential loosening of the adventitia for a distance of 1 or 1.5 cm. The sheath is left attached at both ends. This procedure he terms "sympathicolysis." Handley [13] has suggested injection of alcohol at points equally distant on the circumference of the vessel. He states that with the exception of the primary contraction locally of the vessel all other reactions are similar to neurectomy.

The reactions that are found to occur have been explained by Leriche, Hohlbaum,[14] Kappis,[15] Brüning [16] and others, as follows: The primary contraction at the site of operation has been explained as due to the excitation by trauma of the vasoconstrictor fibers at the site of operation. The secondary phenomena have been explained as being due to the interruption of the paths of the vasomotor fibers which were thought to pass from their origins in the dorsolumbar outflow of the ganglionated cord principally as a network in continuity along the vessels of the extremity. This interruption of the postganglionic fibers was meant to remove the preponderance of vasoconstrictor tonus. It was also believed that any long sensory paths which might reflexly influence the tonus of the vessels or which might in themselves carry painful sensations could likewise be interrupted.

While we may agree that the primary contraction and secondary phenomena occur in a more or less pronounced form in the majority of cases, there still remain many incongruities in the explanation that they result essentially from interruption of long vasomotor tracts supplying the peripheral vessels. It is agreed that these phenomena are frequently transient, and this evanescence would speak very strongly against the basis of the reactions depending on any decided anatomic interruption of vasomotor nerve paths. Further, experimental investigation shows that the arrangement of vasomotor nerves to the blood vessels is in a segmental manner and cannot be interrupted except locally by the operation as now performed.

The classic experiment of Claude Bernard [17] first suggested the segmental distribution of vasomotor nerves. Recently Kramer and Todd [18] have shown that the vessels of the upper extremity receive their sympathetic fibers in a segmental distribution from special nerve trunks. The nerve twigs are distributed from the nerve trunks to the vessels at intervals, the intervals growing shorter as the more distal portions of the limb are reached. This distribution to the vessels corresponds pretty closely with the distribution of nerves to the skin and musculature of the same area.

Potts [19] investigated the distribution of the nerve supply to the arteries of the lower extremities. He also found a segmental distribution of nerves to the vessels similar to the findings in the upper extremity. This segmental distribution through peripheral nerves is corroborated by many experiments conducted along the lines of physiologic investigation.

Langley [20] showed that the normal response of the vasomotor nerves to stimulation is a vasoconstriction in the area supplied by the nerve. He also showed that stimulation of the lumbar sympathetics causes a vasoconstriction that is abolished when the peripheral nerves are cut.

Before further experiments dealing with the physiology of vasomotor activity are discussed, we may find it expedient to quote from Bayliss [21] a survey of those factors which control the normal state of blood vessel tonus. He states that the tonus is due to the natural property of smooth muscle to be in a state of tonus and to the continuous vasoconstrictor impulses sent out by the tonic excitation of the vasocontrictor center. Other factors are the contractions set up by epinephrine when

11. Novak, V.: Periarterial Sympathectomy, Čas. lék. česk. **64**: 1528 (Oct. 17) 1925.
12. Ahrens, R.: Periarterial Sympathicolysis, Zentralbl. f. Chir. **52**: 11 (Jan. 3) 1925.
13. Handley, quoted by Muller, G. P.: Surgical Relations of the Sympathetic Nervous System, Ann. Surg. **78**: 641 (June) 1923.
14. Hohlbaum, J., quoted by Hahn, O.: Effects After Periarterial Sympathectomy, Zentralbl. f. Chir. **52**: 9-10 (Jan. 3) 1925.
15. Kappis, M.: Periarterial Sympathectomy, Klin. Wchnschr. **2**: 1441 (July 30) 1923.
16. Brüning, F.: Trophic Functions of the Sympathetic Nervous System, Klin. Wchnschr. **2**: 67 (Jan. 8) 1923.
17. Bernard, Claude: Lessons on the Physiology and Pathology of the Nervous System, **2**: 508, 1868.
18. Kramer, J. G., and Todd, T. W.: Distribution of Nerves to the Arteries of the Arm, Anat. Record **8**: 243 (May) 1914.
19. Potts, L. W.: The Distribution of Nerves to the Arteries of the Leg, Anat. Anz. **47**: 138, 1914.
20. Langley, J. N.: The Vascular Dilatation Caused by Sympathectomy and the Course of the Vasomotor Nerves, J. Physiol. **58**: 70 (Oct.) 1923.
21. Bayliss, W. M.: Principles of Physiology, London, Longmans, Green & Co., 1924, p. 704.

this substance is present in the blood; also possibly the contraction by which they respond to the natural stretching force of the blood pressure.

Of these several factors, we are especially concerned with the continuous vasoconstrictor impulse which is the variable by whose modified activity it was hoped the caliber of peripheral vessels could be influenced, the point of attack having been principally directed to the interruption of the efferent fibers, thereby removing the control of the vasoconstrictor center over the peripheral vessels. The futility of securing interruption of any considerable number of fibers by removal of a segment of vessel sheath has been shown by Milko,[22] Schilf [23] and others, who secured no change in the blood flow in the extremity of a dog when the sheath of the femoral artery was stimulated. Wiedhopf [24] likewise found no plethysmographic changes in the foot of a dog following periarterial sympathectomy. Melzner [25] removed the perivascular sheath of the renal artery of a dog and found no histologic differences between the kidney that had been operated on and the kidney that had not. Böwing [26] showed that vasomotor reflexes are maintained after sympathectomy but are abolished when the peripheral nerves are cut.

With the accumulation of evidence that the effects of this operation are not due to interruption of the efferent tracts, it is suggested by Brüning [27] that they are due to interruption of afferent tracts which are likewise supposed to travel in the periarterial sheaths of peripheral blood vessels. André Thomas,[28] as early as 1917, suggested that deep sensations were transmitted in the nerves traveling in the vessel sheath. This explanation seemed plausible and helped to explain the disappearance of pain which has been noted frequently in patients who have been operated on. The experimental work of Friedrich [29] seemed to support this view, but the researches of Dennig,[30] who duplicated the work of Friedrich under better controlled conditions, demonstrates that no long vasodilator fibers nor long sensory paths travel in the adventitia of peripheral vessels. Wiedhopf's [31] researches seem to support the work of Dennig.

Another explanation has been offered for the hyperemia that follows operations on an extremity. It is fairly well known that stimulation of a sensory or mixed nerve produces a very decided vasomotor change in an extremity. In 1866, Loven [32] showed that stimulation of the great auricular nerve of a rabbit produces vasodilatation in the rabbit's ear. He also showed that stimulation of the anterior crural nerve of a dog produces local dilatation of blood vessels of the extremity, with vasoconstriction elsewhere and an increase in general blood pressure. These experiments speak for active vasodilator nerves which receive their impulses as a reflex through the dorsal root sensory fibers, or it is possible that they may be antidromal in type, corresponding in many ways to the "axon reflex" described by Langley.

Läwen [33] stretched the sciatic and saphenous nerves in an elderly patient as a remedy for arteriosclerosis and hypothermia of the foot. He produced a hyperthermia with some motor paralysis. Capillary microscopy showed dilated capillaries in the toes of the operated side. It is possible that in this case the results may be attributed to reflex stimulation of the vasodilator fibers or to interruption of the vasoconstrictor fibers passing to the periphery in the peripheral nerve.

Mosser and Taylor,[34] as a result of their experiments, conclude that periarterial sympathectomy in dogs and cats has uniformly failed to produce hyperthermia. However, alcoholic injection of the sciatic nerve in sufficient strength to produce motor paralysis has resulted, in a constant hyperthermia.

The conclusions that one must draw from the foregoing discussion are that we have no proof that either the long vasomotor tracts or the long sensory tracts travel in the adventitia of the blood vessels. That there are vasomotor and possibly some sensory changes following the operation, there can be little doubt. We are not, however, justified in attributing these reactions to any specific attack made on the sympathetic fibers coursing in the sheaths of blood vessels. This position can be supported by experimental work and by the appearance of similar reactions to operative procedures which in no way approximate a thorough neurectomy of perivascular fibers. Furthermore, one must be critical in interpreting results. In some cases of trophic ulcers of both extremities, sympathectomy on one limb has been followed by beneficial results to both limbs. Similar results have occurred in Raynaud's disease when operation on one limb has been followed by bilateral improvement.[35] It may be ventured in the light of our present knowledge that many of the clinical phenomena may be attributed to the enforced rest in bed, while other results may follow the beneficial effects of the reactive hyperemia of inflammation produced by local trauma and subsequent wound healing. Relief or diminution of pain may in some instances be due to interference with the conductivity of sensory nerves. Again, this temporary diminution of pain may lead to increased physiologic activity of voluntary muscles which is accompanied by active hyperemia. Psychic effects must be taken into account in a final analysis, and some benefit may be derived from the voluntary activity induced by the patient's desire to show improvement.

In spite of the fact that there are few diseases wherein pure or relatively pure vasomotor disturbances can be demonstrated, there is a real service to be rendered by the neurologist and surgeon in establishing a successful plan of attack on these vasomotor dysfunctions.

The clinical results of the present operation have been far from satisfactory. We may explain many failures as due to the lack of knowledge of the exact pathogene-

22. Milko, W.: Physiology of Periarterial Sympathectomy, Zentralbl. f. Chir., March, 1924, p. 51.
23. Schilf, E.: Physiology of Periarterial Sympathectomy, Klin. Wchnschr. **3**: 346 (Feb. 26) 1924.
24. Wiedhopf, O.: Action of Periarterial Sympathectomy, Beitr. z. klin. Chir. **130**: 399, 1923.
25. Melzner, E.: Periarterial Sympathectomy, Arch. f. klin. Chir. **138**: 427 (July 25) 1925.
26. Böwing, H.: Plethysmographic Study of Vasomotor Reflexes After Sympathectomy and After Blocking of Peripheral Nerves, Mitt. a. d. Grenzgeb. d. Med. u. Chir. **38**: 210, 1924.
27. Brüning, F.: Spasm of Arteries in Pathogenesis of Vasomotor Disturbances, Deutsche med. Wchnschr. **48**: 1572 (Nov. 24) 1922, and other papers by the same author.
28. Thomas, André: Compt. rend. Soc. de biol., 1917.
29. Friedrich, H.: Phenomena Following Sympathectomy, Klin. Wchnschr. **3**: 2035 (Nov. 4) 1924.
30. Dennig, H.: Periarterial Nerves and Sensory Paths, Klin. Wchnschr. **4**: 66 (Jan. 8) 1925.
31. Wiedhopf, O.: Paths of Nerves of Vessels of Extremity and Their Action in Periarterial Sympathectomy, München. med. Wchnschr. **72**: 413 (May 13) 1925.
32. Loven, cited by Bayliss, W. M.: Principles of Physiology, London, Longmans, Green & Co., 1924, p. 700.
33. Läwen, A.: Treatment of Painful Arteriosclerosis by Stretching of Nerves, München. med. Wchnschr. **69**, March, 1922; Zentralbl. f. Chir. **50**, September, 1923.
34. Mosser, W. B., and Taylor, K. P. A.: Effect of the Sympathetic Nervous System on the Peripheral Vascular System, Arch. Surg. **12**: 760 (March) 1926.
35. Leriche, R.: Ref. med. **40**: 1105 (Nov. 24) 1924. Kummel, H.: Experiences in Sympathectomy, Zentralbl. f. Chir. **50**: 1434 (Sept. 22) 1923. Petruscu, G.: Periarterial Sympathectomy, Lyon chir. **21**: 449 (Aug.) 1924.

sis of many conditions for which the operation has been performed. In some instances the pathologic condition present has been such that it would seem impossible to produce marked physiologic reaction by any operation. In such vascular diseases as thrombo-angiitis obliterans, the essential pathologic condition consists of well marked organic changes, with organization of the thrombus occluding the vessel lumen. Likewise, it is not reasonable to expect any change in such organic diseases as primary or secondary arteriosclerosis. While these two conditions represent the extreme degree of organic disease of blood vessels, they serve as examples of the extreme demands made on this operation. In such conditions as causalgia, in which the pathogenesis is still in doubt and the condition seems to run a self limited course, it does not seem wise to attack the blood vessels. Lewis and Gatewood [36] have shown excellent results in these cases by injecting the peripheral nerve with 60 per cent alcohol. Recently, Taylor and Rice [37] have advocated the injection of the sciatic nerve with alcohol as a substitute for periarterial sympathectomy of the femoral or popliteal vessels.

In reviewing the literature, one is constantly reminded that the enthusiasm of the authors for the operation is not borne out by a critical analysis of their case reports. Too often the authors wax eloquent over the early improvement shown and trail off with an apologetic addendum that the apparent cure was only transient.[38] This is particularly apparent in the reports of chronic ulcers, which show remarkable improvement during the hyperemic phase, but tend to recur with the subsidence of this reaction.[39]

Brandenburg [40] collected statistics from eight German surgeons reporting 103 cases. He states that although the majority of patients are benefited for a while, permanent good results are rare.

Hohlbaum [41] reports failure of the operation in cases of vasomotor disturbances due to nerve injury.

Leriche [42] himself states that in causalgia and trophic ulcers the results are not always complete; in senile gangrene poor, and in ascending neuritis and erythromelalgia a failure.

Winslow [43] reports three cases of thrombo-angiitis and one case of Raynaud's disease in which failure followed operation. I have performed the operation twenty-two times in twenty patients: In ten cases of thrombo-angiitis obliterans, one case bilateral; in seven cases of arteriosclerotic gangrene, one case bilateral; and one case each of Raynaud's disease, diabetic gangrene and chronic ulcer of the leg. Temporary improvement was noted in a considerable number, but relapse occurred in all except three, which showed but slight improvement. In a previous article [44] I have reported the use of sympathectomy with concomitant main vein ligation.

The recent visit of Royle and Hunter to this country stimulated renewed interest in surgery of the sympathetic nervous system, and several surgeons have followed their technic for ramisectomy and ganglionectomy with the idea of attacking the vasomotor fibers before their distribution in the peripheral vessels. Adson and Brown [45] have suggested that relief of vasomotor disturbances may be brought about by permanently depressing or destroying the overactive vasoconstrictor influences of the acral arterioles. This result, they believe, can be brought about in the lower extremity by lumbar sympathectomy. This newer attack seems to have a more logical foundation than perivascular sympathectomy. However, the gravity of the operative procedure itself, as described by Royle [46] and modified by Adson,[47] will be an enormous obstacle to its general adoption as surgical therapy.

Periarterial sympathectomy has always been spoken of as a comparatively simple procedure, but there have appeared innumerable references to mishaps occurring during or following its performance. Such accidents as wound infection,[48] perforation of the artery,[49] secondary hemorrhages,[50] false aneurysm,[51] thrombosis of the artery [52] and gangrene of the extremity [53] have been rather frequent.

Even though we are compelled to admit that perivascular sympathectomy has not fulfilled the promises that seemed so alluring when it was first suggested, nevertheless, it has served a useful purpose in stimulating wide interest in the sympathetic nervous system and awakening the surgical profession to the possibilities in neurovascular surgery.

CONCLUSIONS

1. I am not prepared to accept either the theory or the practice of the present operation.

2. My exerience as well as the reports from other workers would seem to suggest that the operation should be discarded.

3. A more careful study should be made of the sympathetic nervous system.

4. An intensive study of the pathogenesis of various vascular disturbances should be made before operative procedures are resorted to.

5. The operation of periarterial sympathectomy carries with it some technical difficulties and is accompanied by not a few serious mishaps.

6. The substitution of ramisectomy and ganglionectomy for the present operation will greatly increase the operative risk.

7. The present operation has had a stimulating influence in broadening the general knowledge in this field of neurologic surgery, and has served to weld a closer bond between the neurologist and the surgeon.

30 North Michigan Avenue.

36. Lewis, Dean; and Gatewood, Wesley: Treatment of Causalgia, J. A. M. A. **74**: 1 (Jan. 3) 1920.

37. Taylor, K. P. A., and Rice, J. B.: Injections of Sciatic Nerve as Substitute for Sympathectomy, J. A. M. A. **86**: 191 (Jan. 16) 1926.

38. Durante, L.: Periarterial Sympathectomy, Policlinico **32**: 1345 (Sept. 28) 1925.

39. Robineau, A.: Varicose Ulcers and Sympathectomy, Paris méd. **4**: 390 (Feb.) 1923. Jeanneney, G.: Sympathectomy in Leg Affections, Arch. franco-belges de chir. **27**: 884, 1924. Kropveld, S. M.: Present Status of Periarterial Sympathectomy, Nederl. Tijdschr. v. Geneesk. **1**: 2117 (May 10) 1924.

40. Brandenburg, K.: Collective Inquiry on Periarterial Sympathectomy, Med. Klin. **20**: 532 (April 20) 1924.

41. Hohlbaum, J.: Periarterial Sympathectomy, Mitt. a. d. Grenzgeb. d. Med. u. Chir. **37**: 163, 1924.

42. Leriche, R.: Periarterial Sympathectomy, Arch. franco-belges de chir. **27**: 857, 1924.

43. Winslow, N.: Periarterial Sympathectomy, Ann. Surg. **80**: 333 (March) 1926.

44. McNealy, R. W.: The Place of Elective Vein Ligation in Blood Vessel Surgery, Surg. Gynec. Obst. **40**: 45 (Jan.) 1925.

45. Brown, G. E. and Adson, A. W.: Calorimetric Studies of Extremities Following Lumbar Sympathetic Ramisection and Ganglionectomy, Am. J. M. Sc. **170**: 232 (Aug.) 1925.

46. Royle, N. D.: A New Operative Procedure in Treatment of Spastic Paralysis and Its Experimental Basis, M. J. Australia **1**: 77 (Jan.) 1924; The Treatment of Spastic Paralysis by Sympathetic Ramisection, Surg. Gynec. Obst. **39**: 701 (Dec.) 1924.

47. Adson, A. W., in Brown and Adson (footnote 45).

48. Frederick, H.: Phenomena Following Sympathectomy, Klin. Wchnschr. **3**: 2035 (Nov. 4) 1924.

49. Milko, W.: Perforation of Femoral Artery Following Sympathectomy, Zentralbl. f. Chir. **51**: 513 (March) 1924.

50. Zeno, A.: Perforation of Femoral Artery Seven Days After Sympathectomy, Semana méd. **32**: 1, 1925.

51. Brandenburg, K.: Collected Inquiry on Periarterial Sympathectomy, Med. klin. Wchnschr. **20**: 523 (April 20) 1924.

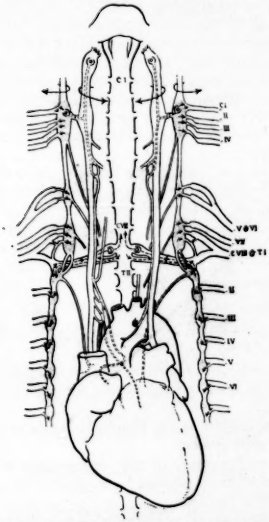
52. Rieder, W.: Dangers from Periarterial Sympathectomy, Zentralbl. f. Chir. **51**: 1685 (Aug. 2) 1924.

53. Kreuter, E.: Partial Periarterial Sympathectomy, Zentralbl. f. Chir. **50**, Nov. 17, 1923.

SYMPTHECTOMY IN ANGINA PECTORIS *

ELLIOTT C. CUTLER, M.D.
AND
JACOB FINE, M.D.
CLEVELAND

The pathologic process that gives rise to the clinical picture angina pectoris is of unknown etiology. Therefore, medical men have attempted symptomatic relief chiefly by rest and nitroglycerin, or by antispecific treatment when the disease has had a syphilitic origin. As these methods have been unavailing in many cases, it was natural to expect an attempt at symptomatic relief by surgical means; i. e., by interrupting nervous pathways carrying the painful stimuli. The belated efforts of surgeons in this field, in contrast to the early interference in comparable diseases, as tic douloureux, are due to our incomplete knowledge of the sensory pathways involved in cardiovascular symptomatology.



Connections of the heart with the central nervous system. The paired vagi are shown next to the cord with the ganglionated sympathetic chains external to the vagi. The connections of the sympathetic ganglions with the spinal nerves are drawn in. The origin of the depressor nerve in the superior sympathetic ganglion and in the upper ganglion of the vagus are represented with these fibers drawn in with dashed lines in the vagi and sympathetic ganglions. These fibers then branch away with the superior laryngeal nerve and finally travel free in the neck to end in the suprasigmoid portion of the aorta. The fibers running from the three cervical sympathetic ganglions medially and downward represent structures commonly called the upper, middle and lower cardiac nerves. These nerves are joined by many vagal fibers and fibers from the stellate and sometimes second dorsal ganglions to form a great network both in front and behind the aorta and base of the heart, in which in turn are embedded many sympathetic ganglion cells. Except for the connection of the vagi with the central nervous system in the brain stem, the connections between the stellate ganglion and the spinal cord at the level of the first dorsal nerve represents the only proved connection between the heart and the central nervous system.

The surgical treatment of angina pectoris was first proposed by Francois Franck [1] in 1899, but it was not until 1916 that Jonnesco,[2] a Bucharest surgeon, actually operated on a patient with syphilitic aortitis and angina, with complete relief from pain. C. H. Mayo,[3] however, observed a case of relief from angina in a man on whom he did a bilateral extirpation of the superior cervical ganglion in 1914, but he did not report it until 1925.

The theoretical considerations underlying the surgical procedure are briefly as follows: In order to abolish the pain of angina, we must interrupt the nervous arc involved, either on the efferent or on the afferent side. It is common knowledge that the vagi and sympathetic nerves comprise the entire innervation of the thoracic viscera, as shown in the accompanying illustration. As the pain of angina arises in the thoracic viscera and is referred to the corresponding somatic segments of the skin, it is obvious that the stimuli giving rise to the substernal pain must pass through the afferent sympathetics passing to that portion of the spinal cord which supplies somatic sensation to the sternum, upper chest and the upper extremities. The anatomic and physiologic investigations of Gaskell,[4] Langley [5] and others have demonstrated that the entire visceral, afferent as well as efferent, sympathetic fibers supplying the heart, superior mediastinum and the rest of the body cephalad to these are all concentrated in a great terminal—the great thoracic (stellate) ganglion. Hence, bilateral extirpation of this structure would completely denervate the heart and aorta of their sympathetic supply. The entire cervical sympathetic system has been shown by Langley [6] and Ranson [7] to be purely efferent and can be made completely functionless by a similar procedure. There is no need to consider the parasympathetic innervation, i. e., vagus, in this connection. It could not be effective in causing pain referred to the chest, for the somatic afferent fibers of this system have no distribution in this region. Wenkebach and Eppinger,[8] nevertheless, attacked the depressor nerve in the hope of relieving the pain of angina pectoris. This nerve, as a result of the work of Koster and Tschermak [9] and more recently of Einthoven, is known to be a purely sensory nerve innervating the aorta. That it can in any way be associated with the anginal syndrome seems questionable, however, since the response to its stimulation consists in a fall of the blood pressure and a slowing of the heart. We know clinically that as a rule the blood pressure rises during an anginal seizure, so that one should assume, if the depressor nerve bears any relation to the disease, that it fails to respond to an

* From the Laboratories of Surgical Research, Western Reserve University School of Medicine and Harvard Medical School, and the Lakeside Hospital.

* Read before the joint meeting of the Section on Surgery, General and Abdominal, and the Section on Nervous and Mental Diseases at the Seventy-Seventh Annual Session of the American Medical Association, Dallas, Texas, April, 1926.

1. Franck, François: Signification physiologique de la resection du sympathique dans la maladie de Basedow, l'épilepsie, l'idiotie et le glaucome, Bull. de l'Acad. de méd. **41:** 594, 1899.

2. Jonnesco, Thomas: Traitement chirurgical de l'angine de poitrine par la resection du sympathique cervico-thoracique, Bull. de l'Acad. de méd. **84:** 93 (Oct. 5) 1920.

3. Mayo, C. H.: Discussion on Lilienthal, Howard: Cervical Sympathectomy in Angina Pectoris: A Report of Three Cases, Arch. Surg., pt. 2, **10:** 541 (Jan.) 1925.

4. Gaskell, W. H.: The Involuntary Nervous System, London, Longmans, Green & Co., 1916.

5. Langley, J. N.: The Sympathetic and Other Related Systems of Nerves. Text-Book of Physiology by E. A. Schäfer, London, Macmillan Company, **2:** 616; The Autonomic Nervous System, Cambridge, W. Heffer & Sons, Ltd., 1921.

6. Langley, J. N.: The Autonomic Nervous System, Brain **26:** 1-26, 1903; The Sensory Nerve Fibers of the Heart and Aorta in Relation to Surgical Operations for the Relief of Angina Pectoris, Lancet **2:** 955 (Nov. 8) 1924.

7. Ranson, S. W.: The Anatomy of the Nervous System, Philadelphia, W. B. Saunders Company, 1923. Ranson, S. W.; Billingsly, P. R., and Johnson, S. E.: Studies on the Sympathetic Nervous System, J. Comp. Neurol. **29:** 305-456, 1918.

8. Eppinger and Hofer: Offizielles Protokoll der Gesellschaft der Aerzte in Wien, Wien. klin. Wchnschr. **36:** 334, 1923.

9. Koster, G., and Tschermak, A.: Ueber Ursprung und Endigung des Nervus depressor und Nervus laryngens superior beim Kaninchen, Arch. f. Entwcklngsgesch. Leipzig, Suppl., 1902, pp. 255-294; Ueber den Nervus depressor als Reflexnerv der Aorta, Arch. f. d. ges. Physiol. (Pflüger s) **93:** 24, 1902-1903.

overstretching of the aortic wall instead of responding excessively. Moreover, clinical pursuit of this procedure has not been very vigorous since it was proposed, because the nerve is difficult to find and when ablated is not productive of any significant improvement.[10]

On the other hand, the operation proposed by Jonnesco, which consists in removal of the stellate ganglions and all sympathetic ganglions cephalad to this, has in many cases given gratifying results. From what has already been said, however, his operation is unnecessarily extensive, since removal of anything in addition to the first thoracic ganglion is superfluous on theoretical grounds. But Coffey and Brown [11] discovered that removal of the superior cervical ganglion was often effective in removing the anginal pain. As this has been substantiated by the subsequent experience of others, it becomes necessary to explain such relief by supposing that this ganglion is involved in the nervous arc producing the anginal seizure and, since it contains only efferent neurons, that it is on the motor side of the cycle resulting in the production of the pain.

But no one has yet observed any noticeable physiologic effect on the heart or aorta as a result of stimulation or removal of this ganglion. The suggestion then presents itself that, since relief has in many cases been obtained by the most varied procedures, all of which have failed nearly as often as they have been successful, we are dealing with a symptom not directly referable to an organic lesion, and that, therefore, many cases of angina are neuroses which have been relieved by the suggestive power of surgery. However, few persons in contact with patients suffering from angina will be impressed by such a possibility; so that we are left with the unavoidable conclusion that there is something common to all the surgical procedures attempted that is responsible for the relief that unquestionably is being secured by surgical intervention in about 60 per cent of the cases. What that common factor is remains for the future to expose.

But, in spite of the gains being secured by surgery, there are certain objections offered to the procedure on the ground that we may be producing by nerve ablation irremediably disturbances of cardiac function or injury to the myocardium, etc.[12] These objections can be readily disposed of by the available experimental and clinical evidence that such surgical procedures in no way incapacitate the heart (clinical, Jonnesco [13] and others;[14] experimental, Cannon [15] and others [16]).

Before we can correctly evaluate the results of sympathectomy in angina pectoris, we must be sure that the cases in which operation has been done have been correctly diagnosed, and we must exclude extraneous but often necessarily concomitant factors that may have influenced the ultimate result. It is obvious from the literature that frequently cases are being chosen for operation concerning which the diagnosis of angina pectoris is at least doubtful, if not at times quite incorrect. In this connection we should bear in mind that angina pectoris clinically, if not pathologically, is a definite disease with its own characteristic group of symptoms that can be differentiated from other types of cardiac and chest pain. This frequently requires considerable experience and prolonged and mature study and deliberation. One of the most frequent syndromes with which it is confused is coronary thrombosis. Obviously, operation in such cases will only tend to discourage surgeons from a procedure that may in time come to have a very definite position in cardiac surgery. It must be borne in mind that angina pectoris is a disease that is not in any way necessarily associated with demonstrable cardiac dysfunction. It may sometimes prove necessary to give relief to a patient with angina who has at the same time some degree of cardiac embarrassment, but in the present experimental stage of the procedure it is hardly correct to allow such cases to enter into a consideration of the advisability of the procedure, since the dangerous condition of the heart itself and the extra load of surgical trauma are bound to warp the results and becloud the issue, which is: Can surgical intervention remove the symptom of pain without at the same time predisposing the circulation to any consequent disability? At the present time a sufficient number of cases have been reported in the literature to enable us, with the help of our own clinical experience on the subject, to draw a few conclusions as to the value of the operation. After we have deleted from the reported cases those which we believe have been advisedly selected for operation, there remain about eighty cases (up to six months ago) of true angina pectoris in which operation was done by six different procedures.[17] Certainly many more cases have been done (eighty-three by Leriche alone [18]), and many more are being done. From our own experience as well as from a careful survey of the literature it becomes increasingly evident that much indiscriminate surgery is being and will be done in this field unless the indications for surgery are duly considered and pointed out. It appears to us from a survey of the results achieved to the present that the most successful operation will probably prove to be the partial Jonnesco procedure; i. e., ablation of the stellage ganglion by the technic either of Jonnesco or of A. K. Henry.[19] There is no doubt that brilliant results will continue to be secured by the less formidable operation of superior cervical sympathectomy, but on theoretical and clinical grounds the more reliable one in the long run will prove to be the former.

Our own experience, though limited, may serve to illustrate certain points in the matter under discussion. It includes purposefully what may seem to be a variety of clinical conditions in that one of the patients is a youth of 19, suffering from marked aortic insufficiency of rheumatic origin. In our understanding of the disease angina pectoris, we are inclined to accept the view of Allbutt, and it seemed that cases of this type might be of the greatest assistance in appreciating the

10. Odermatt, W.: Die chirurgische Behandlung der Angina Pectoris, Deutsche Ztschr. f. Chir. **182**: 341-354, 1923.

11. Coffey, W. B., and Brown, P. K.: The Surgical Treatment of Angina Pectoris, Arch. Int. Med. **31**: 200 (Feb.) 1923.

12. MacKenzie, James: Diseases of the Heart, Edinburgh, Oxford University Press, 1925, p. 346. Danielopolu, D.: The Pathology and Surgical Treatment of Angina Pectoris, Brit. M. J. **2**: 553 (Sept. 27) 1924.

13. Jonnesco, Thomas: Le sympathique cervico-thoracique, Paris, Masson et Cie, 1923.

14. Levine, S. A., and Newton, F. C.: The Selection of Patients with Angina Pectoris for Sympathectomy, with a Report of Additional Cases, Am. Heart J. **1**: 41, 1925. Lilienthal (footnote 3). Smith, F. Janney, and McClure, R. D.: Cervical Sympathectomy for the Relief of Pain; Report of Two Cases Treated Surgically for Angina Pectoris, Surg. Gynec. Obst. **39**: 210-215 (Aug.) 1924.

15. Cannon, W. B.: Personal communication to the authors. Also we ourselves have removed the stellate ganglions from both sides of dogs and have kept these animals over two years. Careful functional tests show no alteration of the cardiac ability.

16. Schafer, E. S.: Experiments on the Cervical Vagus and Sympathetic, Quart. J. Exper. Physiol. **12**: 231-301, 1919. Montgomery, M. L.: The Effect of the Ablation of the Superior Cervical Sympathetic Ganglia on the Continuance of Life, Endocrinology **7**: 74 (Jan.) 1923.

17. A review of the literature will be presented in a paper for future publication.

18. Leriche, René: Notes made by secretary of the Society of Clinical Surgery from talk by Leriche at his clinic, July 20, 1925. Report of the Fortieth Meeting of the Society of Clinical Surgery, Europe, June 20-July 27, 1925. Privately printed by J. J. Little and Ives Company, New York.

19. Henry, A. K.: A New Method of Operation for Angina Pectoris, Lancet **2**: 1385, 1922; Cervical Sympathectomy for Angina Pectoris, Irish J. M. Sc. **5**: 147-194, 1924.

etiologic condition. This patient therefore, was submitted to operation with the hope that more light would be thrown on the focus of the disease in angina pectoris. In such a case, serious disease of the coronary arteries and myocardium seemed ruled out. And we knew that there was definite disease of the cusps of the aortic valve.

The following case reports include only the positive findings and serve merely to outline their course. All of these patients are controlled cases in the sense that they have had frequent, careful follow-up examinations, including vital capacity determinations, roentgen-ray studies and functional tests. They serve the purpose here merely of a skeleton on which one can hang the necessary facts for such an abbreviated discussion of this topic.

REPORT OF CASES

CASE 1.—A man, aged 59, married, a printer, an inveterate pipe smoker, for ten months suffered substernal distress on effort. For four months he had an agonizing, gripping, viselike pain, increasing in severity and coming on with slight exertion and spreading to the neck and left arm, never to the right, relieved by nitroglycerin. There was no dyspnea, edema or other symptoms. For one month he had been confined to the house.

He was relatively normal for his age. His heart was of normal size: rhythm was regular, and there were no murmurs. The blood pressure was: systolic, 132; diastolic, 90. Electrocardiographic, roentgen-ray, blood and urinary studies were normal. There was no evidence of syphilis.

June 21, 1923, resection of the left superior cervical sympathetic ganglion was done. After three and one-half months he returned to work as a printer, walking more than a mile to his office. He continued to suffer from mild substernal distress, coming on with exertion. It was immediately relieved by nitroglycerin, which he took almost daily. There was no return of severe attacks. Symptomatically he was greatly relieved, and was very grateful. He died suddenly, Jan. 26, 1926, after an attack of severe pain lasting six hours. He was not personally observed, but death was apparently due to coronary thrombosis.

CASE 2.—A youth, aged 19, single, had had rheumatic fever at 7 years of age, during which period he was confined to bed for several months. A year following this, the tonsils and adenoids were removed. There were repeated attacks of rheumatic fever up to the age of 16, at which time he was admitted to a hospital, complaining of heart trouble. Examination at that time showed marked enlargement of the heart, with a rough, blowing systolic murmur and a loud blowing diastolic murmur; the pulse was of the Corrigan type. The blood pressure was: systolic, 165; diastolic, 0. A diagnosis of aortic insufficiency and mitral insufficiency was made. Shortly before admission, the patient had begun to be troubled with attacks of substernal pain. This pain was consistently relieved by nitroglycerin. During the next three years there were frequent readmissions to the hospital, the complaint varying between weakness, loss of weight, shortness of breath and substernal pain. The patient was always improved symptomatically by rest in bed, but finally returned to the hospital complaining that the pain was becoming intolerable. It seemed to commence in the region underlying the midsternum. It progressed through to the back, sometimes to the right axilla, never down the left arm, and it was always relieved by nitroglycerin. At the time of last admission there were many attacks daily, and these were of great severity. The pain usually had its onset in some form of physical exercise. It was not relieved by digitalis therapy.

The youth appeared healthy, and the diagnosis of aortic insufficiency was apparent on the most superficial examination. There was a very wide area of cardiac impulse, and the pulsation in the neck was forceful and visible at a great distance. The heart was enormously enlarged, the major enlargement being in the region of the left ventricle. This was all confirmed by roentgen-ray and electrocardiographic studies. A vital capacity estimation showed a 25 per cent reduction from the expected normal.

In view of the central location of the pain, it was decided to perform sympathectomy on both sides. The operations were done at two sittings two weeks apart (Oct. 3 and Oct. 18, 1923). On the left side the superior cervical ganglion, after division of the ramus communicans inferiorly of its many lateral branches, was divulsed and removed. On the right side a portion of the communicating bundle between the upper and middle ganglions and of the superior cardiac nerves was resected. The wounds healed without complication. There was the usual enophthalmos and myosis of the pupils.

Recent reports from the patient state that he is working, and that for at least six months he has taken no nitroglycerin. There are minor attacks of precordial pain, but none of great severity. The patient is up and around and at work daily, walking considerable distances. What pain he has is associated with some palpitation and dyspnea, but he states that it is a different kind of pain from what he suffered previously. He still complains of some distress in the left side of his face with chewing. It would appear as if the continued improvement over an interval of two and one-half years bore some relation to the operative procedure.

CASE 3.—A man, aged 72, married, had for three or four years suffered with substernal oppression on exertion, increasing in severity, and lately accompanied with a dull, crushing pain in the left shoulder and arm. In recent attacks he felt that he was dying.

There was slight cyanosis. The heart was of normal size; there was a faint systolic murmur, and an accentuated aortic second sound. The blood pressure was: systolic, 170; diastolic, 70. Vital capacity was decreased. Blood, urine and electrocardiographic studies were normal.

Jan. 7, 1924, the upper, middle and lower left cervical sympathetic ganglions were removed. He is now active and states that he is much improved. The blood pressure is: systolic, 160; diastolic, 80. The heart sounds are unchanged. On rare occasions with exertion, as when working in the garden, there is a vague sense of constriction in the chest. He is satisfied. He rarely takes nitroglycerin for the pain. Though never a very severe case, it seems as if his condition has been improved since the operation two years ago.

CASE 4.—A man, aged 60, married, a merchant, twenty months previously, without similar attacks, after an unusually long walk in deep snow had a very severe and alarming pain, substernal, vicelike, into the root of the neck and down the left arm. Subsequent attacks became increasingly frequent and on slight exertion. There was no dyspnea.

The patient appeared vigorous. The blood pressure was: systolic, 125; diastolic, 80. The heart was of normal size, rate and action. Roentgen-ray, exercise, electrocardiographic, blood and urine studies were normal.

Nov. 22, 1924, division of the left superior cardiac nerves and of the trunk between the upper and middle ganglion was done. After six months the patient was readmitted to the hospital, since we became convinced that the return of distress was equal to the previous complaints. June 6, 1925, resection of the left middle, inferior and stellate ganglions was done. When seen in consultation with his family physician, October 26, his general condition was excellent. He was cheerful, had suffered from no severe attacks, and was not taking nitroglycerin, but objected because he could not walk as far as he used to. Without any warning, but preceded by mental worry, he was suddenly seized at 2:30 a. m., Jan. 7, 1926, with severe, agonizing, substernal pain, which radiated into his arms (unfortunately no close observation was made as to whether the pain was greater in the right or left side). He died within a few hours, and his physician described the pain and attack as "truly anginal." Although there were no records of the behavior of his pulse and pressures, it seems reasonable to conclude that death was due to coronary thrombosis.

CASE 5.—A man, aged 65, married, a merchant, for one year had a crushing, viselike pain beneath the sternum and to the left part of the chest, left shoulder and the root of the neck. There was an aura of great distress and threatened

disaster. He had lost 40 pounds (18 Kg.). Nitrites gave relief temporarily.

The patient was emaciated, desiccated, and extremely apprehensive. The left ventricle was enlarged; there was no evidence of widening of the aortic arch. There were no cardiac murmurs. The pulse was regular. The blood pressure was: systolic, 140, diastolic, 80, rising to 180 with attacks. Electrocardiographic studies were normal. A functional test showed good response to effort.

May 23, 1925, a left cervicothoracic sympathectomy[20] was done. The patient died, May 31, eight days later. Immediately after operation there occurred curious and inexplicable periods of apnea, with rapid pulse and normal pressures. Gradually the patient became totally disorientated and mentally exhausted, the pulse gradually deteriorated, and death supervened with respiratory failure. No necropsy was permitted. Explanation periods of apnea were wanting. The marked mental symptoms seemed to indicate sclerosis of the cranial vessels, with softening of the brain.

CASE 6.—A man, aged 54, married, a steward, for one and one-half years had been incapacitated by attacks of substernal pain. It often extended into the root of the neck, the back and down the left arm. With the pain was a sense of impending disaster. He was unable to work, since effort brought on pain. Relief was obtained from nitroglycerin.

He was a rugged, vigorous man. The heart was normal in size and action. The blood pressure was: systolic, 128; diastolic, 75. There were no murmurs. The Wassermann reaction was negative. Blood, urine and electrocardiographic studies were normal.

April 27, 1925, a left cervicothoracic sympathectomy was done. After two weeks of freedom and with the recommencement of exercise, pain began to return, but this time it was situated just to the right of the sternum in the second and third interspaces, with radiation into the root of the neck. The pain was very severe and alarming, and was accompanied by peculiar attacks of apnea. May 29, a partial right cervicothoracic sympathectomy was done, with removal of the middle and inferior cervical ganglions and stellate ganglion.[21] Following the last operation, the patient at first was much more comfortable. He suffered from vague burnings around the left ear and right shoulder. Breathing was unaffected by pain as formerly. It was unnecessary to take nitroglycerin. He took up smoking again. With increasing effort as he began to walk about and eat more, he had a return of distress beneath the right border of the sternum, but never so severe as previously. Nitroglycerin was given, with relief. Jan. 8, 1926, he walked to the office to discuss his case, had regained 30 pounds (13.6 Kg.), was cheerful, and was greatly relieved. January 24, he was seized with severe agonizing pain just to the right of the sternum. Nitroglycerin alone gave relief. He has lost appetite and does not sleep well. The pulse remains regular. He is considerably depressed. The continuance of right-sided pain may be evidence that the stellate ganglion on this side was not completely extirpated. The downward tendency in the last two months offers a bad prognosis and may bespeak advanced coronary sclerosis.

CASE 7.—A man, aged 64, married, a clerk, up to eight months ago had been unusually active. The original symptoms were indigestion and substernal distress; later, difficulty in getting the breath, and a sense of constriction of the chest. Still later, there were attacks of pain originating beneath the sternum and radiating to the root of the neck and down both arms. The pain was always greater on the right side. The patient reacted to the pain by getting up and moving the arms about. Recently the pain had been crushing, very severe, not relieved by morphine, and there was constant substernal distress.

The patient was spare but well developed. The heart was slightly enlarged, the aortic arch a little widened. The pulse ranged from 80 to 90. The blood pressure was: systolic, 154; diastolic, 78. No cardiac murmurs were heard. Vital capacity and electrocardiographic, blood and urine studies were normal. Response to the exercise test was good.

Nov. 18, 1925, right cervicothoracic sympathectomy was done (the right side was operated on first, since the history of painful attacks emphasized the greater intensity of the pain on this side). The immediate postoperative course was satisfactory. The patient was sent home for Thanksgiving. December 4, left cervicothoracic sympathectomy was done. Except for slight twinges of pain in the jaws, shoulders, etc., as by-effects of the operation, the condition has been satisfactory. There has been no substernal pain. The patient is beginning to walk about, satisfied, and apparently considerably improved. He was last seen, March 18, 1926. After a mile walk and climbing up a long and very steep flight of stairs, the pulse was 88; systolic blood pressure, 165; diastolic, 90; vital capacity, 25 per cent decrease; no dyspnea, and no other symptomatic complaint.

20. The term cervicothoracic sympathectomy we use to describe the complete Jonnesco operation, with removal of all the cervical and the first thoracic or stellate ganglions.

21. There was some doubt at the operation in this case whether all of the stellate ganglion was removed. Subsequent developments add evidence to make us feel that not all the afferent fibers were interrupted.

COMMENT

From a consideration of these cases it becomes evident that a single or bilateral extirpation of the superior cervical ganglion or of the entire cervical chain and first dorsal ganglion will frequently give temporary complete or partial relief and often will fail. The complete operation is less likely to fail entirely, however, than simple superior ganglionectomy. (Case 4 showed return of pain after the simple operation, but was apparently improved following the secondary removal of the stellate ganglion on the same side.) In certain cases it appears that what was considered a leftsided angina before operation has been converted into a rightsided angina by a left Jonnesco procedure (case 6). This, however, means that the leftsided angina was relieved and the residual rightsided angina, not noticed by the patient preoperatively because of its comparative insignificance, now remains. Contrary to our conception of the anatomic factors involved, from which it would seem that proper sensory nerve ablations ought to stop the pain immediately afterward, certain patients eventually totally relieved, even after complete bilateral Jonnesco procedure, will still have pain, as a rule reduced in severity, postoperatively for a few weeks or months. This is ample evidence to indicate the insufficiency of our knowledge concerning the sensory innervation of the heart.

We have in no case observed any deleterious effects on the cardiac capactiy of the patient as a result of operation. A few have expressed the opinion that cases of syphilitic angina are particularly dangerous cases for operation.[22] It is difficult to understand why sympathectomy should be dangerous in these cases. A general anesthetic and prolonged surgical trauma may well be deleterious, but these are matters that enter into consideration as a routine in any case of syphilitic cardiac disease in which an operation is contemplated. When these dangers are duly cared for, a case of syphilitic angina should benefit from the operation as certainly as any other type of case.

The cases that are particularly dangerous in our experience are those which present advanced cerebral arteriosclerosis combined with severe coronary disease. They will not tolerate any surgical procedure well, and it seems as if sympathectomy makes them definitely worse, although it may relieve the pain (case 5).

Among the most distressing postoperative complications of the procedure are the by-effects of sympathectomy, which seem to be directly proportional to the degree of nerve resection. The Horner syndrome is a minor defect that compensates itself in time. But

22. Levine and Newton (footnote 14).

particularly annoying are the pains that are felt in the shoulder, neck, face, jaw and arm on the side on which operation is performed. In the jaw, especially along the ramus, and in the temporomandibular joint, the patient experiences a severe pain especially at the onset of a meal, and it may persist throughout the period of food ingestion in severe cases. There is a constant ache in the shoulder or scapula and down the arm, particularly at night, which is difficult to relieve except by narcotics or local counterirritants. Areas of hyperesthesia on the face, ear or neck will vary, as do those of anesthesia, with the amount of injury done to the cervical plexus during the operation. These symptoms vary in severity and extent of distribution in different cases, and may be so distressing as to make the cure seem worse than the disease. One patient of ours compared the terrible feeling in his entire left arm to a sensation of an infinite number of "slivers" sticking into it. Because of the transitory nature of these symptoms, it seems that they may be due to one of several possibilities—the altered vasomotor control of the organs and tissues deprived of their involuntary nerve supply, or irritation of the somatic sensory neurons of the spinal and cerebral ganglions as a result of neuronic degeneration of the severed sympathetic nerves.

That surgery will come to have a definite place in angina pectoris seems promising, but it is impossible as yet to say definitely which is the most desirable procedure of those proposed. We lean in favor of the partial Jonnesco procedure, unilateral or bilateral, depending on the individual case.

Unfortunately, this is not a subject susceptible of laboratory investigation beyond the point of establishing the possible location of the extrinsic nervous connections of the heart. It should be remembered by all who would shoulder the responsibility of operating on such patients that this study is still in its experimental stage and that only those who are carefully studied and carefully selected before operation and are followed until the end result is known can be justifiably submitted to operation.

ABSTRACT OF DISCUSSION

ON PAPERS OF DRS. FORBES AND COBB; RANSON; DAVIS AND KANAVEL; MC NEALY, AND CUTLER AND FINE

DR. HERBERT E. COE, Seattle: Royle and Hunter opened up a new phase in the surgical treatment of the spastic paralyses, and this was followed by the usual wave of hyperenthusiasm. Dr. Davis has sent the pendulum to the other extreme of its swing when he says that they have failed completely to confirm the work of Royle and Hunter. This should put an effective check on ill advised surgery. Does not the paper as a whole, however, leave too pessimistic an impression? The ability of Hunter and Royle is widely recognized throughout the scientific world. It does not seem reasonable that whatever improvement they have reported in these spastic cases has been due solely to enthusiasm, suggestion or autosuggestion. The comment of the authors as to the possible causes of this improvement deserves careful study. Whatever the cause of the improvement, whether it is temporary or permanent, psychologic or physiologic, it may be stated definitely that some degree of improvement has occurred in some cases in which surgery has been done on the sympathetic nervous system. Why do we hear such conflicting reports? Dr. Davis has placed his finger squarely on the essential point when he reminds us that we do not know the nature of muscle tone and that we have no method of measuring it. This refers the question directly back to the physiologist, where it must remain until muscle tone is better understood and a method of measurement is devised which eliminates as completely as possible the personal equation. Those of us who have the opportunity of studying these cases must bear constantly in mind the four cardinal indications, all of which must be present before surgery of the sympathetic system may be even considered—adequate mentality, a clear nerve pathway from cortex to end-organ, no physical obstruction to motion, and the inability to relax quickly. When these four indications are present, and when the case admits of reasonable control and accurate record, it would seem advisable to continue the observation of surgical results. Finally, from the point of view of the spastic patient in general, the most valuable result of this work is not the variable amount of improvement in the 5 or 10 per cent that may come to operation, but rather what we may term a by-product. It is heartless to drive these patients into the hands of charlatans with the curt prognosis "hopeless," for we have had recalled to us, and emphasized, the distinct improvement that may be obtained in the large proportion of cases by tried and proved orthopedic measures and by muscle training and reeducation.

DR. CHARLES S. VENABLE, San Antonio, Texas: Most certainly all of the weight of evidence from the anatomic, physiologic and histologic standpoint is against sympathectomies. On the other hand, there must have been some clinical improvements or possibly some cures to have incited so much interest and so much research. I have lost some of my enthusiasm and possibly a little of my optimism in the ultimate curative end-results to be obtained by what one may speak of as broadcasting sympathectomies. But, on the other hand, when one has seen the entire relief from the severe pain in the painful stump which had previously been subjected to alcoholic injections or further resection, or when one has seen an atrophic ulcer which had been treated over a great number of years and in a great many ways heal and remain healed, one is encouraged, for lack of possibly something else to do, to repeat this procedure because nothing else is offered. In cases of Raynaud's disease, of which I have had five, the primary result is the prompt relief from pain and apparently a very prompt tendency, due to vasodilatation, of the ulcer to heal. In two of these cases the ulcers have healed and remained healed for varying lengths of time. One great advantage seems to be the possibility of amputation at a site of election rather than the necessarily high amputation we have had to practice heretofore. In cases of diabetic gangrene I have been able to do amputations below the knee with prompt stump healing, which I have done at a period of election, from ten to fifteen days after the sympathectomy. In one instance it was four days after the sympathectomy. I think that we should at least feel sufficient encouragement to go on with the investigation, and clinically I am afraid that I am going to be the culprit until our friends investigate us and either prove us so entirely wrong that all clinical evidence seems to go the other way, or agree and come along with us.

DR. SAMUEL CLARK HARVEY, New Haven, Conn.: It is very apparent that there is no definite correlation between the anatomic and the physiologic findings that Dr. Ranson has presented, and the clinical results that have been obtained by the operative procedures so far employed, and particularly the operative procedure of Coffey and Brown. I should like to know more about the position of the sensory fibers in the sympathetic tract. Dr. Ranson has spoken of the physiologic and clinical evidence, which seems not at all complete. The clinical evidence consists of a few isolated observations which have been thought of as analogous to the somatic sensory system. I do not know that necessarily the lack of pain and response to the ordinary forms of stimulation employed at operation in the sympathetic system rule out the afferent impulses. The histologic evidence should be given more definitely, and I should like Dr. Ranson to tell us the evidence that he has from the histologic standpoint as regards the sympathetic sensory tracts. It is very apparent that the procedure employed clinically, and undoubtedly with palliative success, is of considerable importance. As to the selection of cases, we should be conservative. I do not feel that those cases that are diagnosed as coronary thrombosis should

be ruled out. There are instances in which the outcome is very problematic, and certainly these should not be subjected to a prolonged and severe operative procedure under general anesthesia. As to the choice of operation, the less severe procedure should be employed first. The operation of Coffey and Brown, avulsion of the superior sympathetic ganglion or the division of the superior cardiac nerve and of the sympathetic trunk, is a relatively easy procedure which can be carried out perfectly well under local anesthesia, and as a tentative attack should be employed in each instance. Dr. Cutler did not lay sufficiently great emphasis on the fact that certain embarrassing sequelae may occur in any type of sympathectomy, the most embarrassing being the curious form of paresthesia analogous to or resembling Sluder's neuralgia. This may be very bothersome. Without doubt this operation has produced some results, perhaps not curative but certainly palliative. It is a purely empiric procedure, for the moment, not based on sound anatomic or physiologic reasoning. It is an experimental procedure on man, and such procedures on man should be carried out by those who are so situated as to make them scientific experiments. I do not think that the procedure is yet so sufficiently standardized as to justify employing it as a common therapeutic procedure. Dr. Cutler's paper exemplifies the study and care in the follow-up of the cases that is necessary, and these should be employed by any one who carries out this operative technic.

DR. WALTER B. COFFEY, San Francisco: Five years ago I severed the superior cardiac nerve and the main branch of the sympathetic in a patient suffering from frequent attacks of angina. Physiologists claimed that there were no fibers of sensation as high as the superior ganglion. The fact remains, however, that the eight or ten attacks a day in my case ceased. This operation has accomplished all that any of the numerous procedures more complicated and dangerous have done with equally less disturbance and less mortality, for attacks have recurred after unilateral and bilateral resection of the stellate ganglion. I have now operated in about thirty-five cases with encouraging results. Four times I had to resect on both sides. I cannot emphasize too strongly that surgeons should not attempt the procedure without the advice of good clinicians. No patient on whom I have operated has died of an attack of angina. The few deaths were from an underlying organic lesion. I have experimented on animals and done many dissections. My assistant at that time, Dr. John Humber, now assistant professor of anatomy at Tulane, has continued the dissections, using a technic, tried at operation by me, of inflating the ganglion. Such inflation spreads out through the various branches and fibers connected with the ganglion. The dissections show connections and collaterals not previously demonstrated. In some cases, we found the superior ganglion high up in the angle close to the jugular foramen, and in many instances I severed the upper pole of the ganglion. This would leave the carotid and jugular branches with its collaterals to the carotid plexus and tympanic plexus. It may be the explanation why we get pain in some of these cases due to impulses through collaterals. The tympanic plexus is the most important relay station in the sympathetic system. I am quite certain that where these two branches from the upper pole, that is, the internal carotid and jugular, were severed favorable results were obtained. In a severe case of angina, the upper sympathetic system was thoroughly inflated with triple distilled water. The angina attacks disappeared, but a remarkable incident occurred on the night of the operation. The patient developed Cheyne-Stokes respiration. I could account for this only through the spreading of the fluid through a branch (which I frequently find) from the superior ganglion to the phrenic to the vagus through the connecting branches.

DR. ALEXANDER LAMBERT, New York: Sympathectomy by several different operations has been successful for the relief of anginal pain, but the same surgical procedure in one man has not relieved the pain in another. The variation in man of the pathways of the sensory nerve fibers is as varied as are the opinions as to what is best to do. It is not known which are the usual sensory pathways in man. The opinions of Danielopolu and the French observers differ from those expressed by Dr. Ranson and Dr. Cutler. The operation of sympathectomy has a low death rate, but when the stellate ganglion is removed, there is a distinctly greater death rate from the immediate effects on the patient than in any of the other operations. If this stellate ganglion is removed, about one fifth of the patients die of acute edema of the lungs soon afterward. The success of the various operations may be due, not to cutting of the sensory fibers, but to breaking up of the reflex arc, and a prevention of excessive stimulation of the vasoconstrictor reflexes. All this doubt as to what may be the result of any given operation of sympathectomy emphasizes the wisdom of trying a procedure, previous to operation, which stops the pain where it expresses itself on the body. All sensory nerves coming from the viscera go through some spinal nerve to the spinal cord by way of the white rami; these white rami occur only from the first dorsal to the fourth lumbar; therefore, when pain comes from the heart, it goes into the spinal cord through one of these nerves. All sensory nerves go through the posterior root ganglion of these spinal nerves, and this posterior root ganglion can be reached and the sensation of pain can be blocked off in that root ganglion. This has been done in New York by Dr. George Swetlow with marked success. It is not a difficult operation, it does block off the pain where it shows itself in the body segment, and it is the relief of pain that the patient seeks. It is asserted that the pain of angina is a warning, and a protective sensation: It is well to remember that the pain is the other man's pain, not yours, and he should be the one to decide whether or not it should be removed, especially since Bayliss has shown that through the sensory nerves the vasoconstrictor reflexes cause the danger in the angina. If these vasomotor reflexes can be cut off with the cessation of pain, the advantage is vastly greater than the mere relief of the pain. Most patients in whom the pain has been relieved by sympathectomy have shown distinctly an increased ability for exertion without excessive cardiac disturbance, which they did not possess previous to operation. Thrombosis of the coronaries, or coronary disease, does produce pain, and not all anginal pain comes from the aorta alone. It is also a curious fact that 25 per cent of those suffering from coronary disease have their expression of it in the epigastrium in the nerves that come out from the second to the ninth dorsal vertebrae running into the plexuses on the esophagus, lungs and heart. One cannot by any sympathectomy stop this expression of pain. In the epigastric pain, therefore, one is reduced to the necessity of blocking it, if one desires to help it. In only 10 per cent of patients suffering from coronary disease does the pain go down the arm and sympathectomy have a chance to help.

DR. ARTHUR STEINDLER, Iowa City: This symposium is a general attempt to break down some of the claims that have been made by Royle and Hunter, and if it is, a thorough job has been done. I have been very much impressed with what I have heard today, but when we heard Royle and Hunter, we were likewise deeply moved by the thoroughness and earnestness of their work. I feel that while this investigation into their work is going on, it is proper to investigate the investigation. From the physiologic point of view, the matter stands as it did some time ago, namely, that it is acknowledged that the sympathetic nervous system has a direct influence on the innervation of the peripheral or skeletal muscles; but the question of how this innervation is arranged is still unanswered. I regret that the experiments have not been extended to the fowl and to the seagull, in which spastic tone is especially noticeable and spastic tone is a definite function and not an obstacle, as it is in man. I believe it the strongest point in the physiologic investigations of Hunter that special sympathetic control was to be found in these birds that soar and that have to keep their wings in a special state of contracture for an unbelievably long time. When it comes to the clinical evidence, it seems to me that the cases in which we have succeeded must be explained first before we can dispose of sympathetic innervation as a physiologic factor. I am greatly impressed with what I have heard today, but it seems to me that there are still holes in

both presentations of the case, negative and positive. Royle and Hunter are still insisting on the efficacy of the method on the physiologic grounds for which they have accepted the findings of Langelaan and the histologic findings of Boeke.

DR. W. B. CARRELL, Dallas, Texas: Stimulated by the work of Hunter and Royle, we were encouraged to do a series of ramisections in Little's disease during 1925. Twenty-five of these were lumbar and ten cervical. In all lumbar cases definite hyperemia followed within a few hours, with from 1 to 2 degrees elevation of surface temperature and the sensation of warmth persisted in all cases. This was very noticeable in children reexamined months later, during cold weather, when the foot and leg on the operated side was distinctly warmer than on the other, but without any elevation of temperature. The improvement in the function has not been marked, but in fifteen cases the gait was improved to the extent of more ease in flexing and bending the knee and walking with less rigidity. The parents and patients themselves were pleased with the improvement and motion pictures show increased motion at the knee after the operation. We did not have any appreciable change in the reflexes, the amplitude of the knee jerk was the same and the sustained action was as great as before operation. The cervical cases have not shown any appreciable improvement. We did not get the early hyperemia as pronounced, which has perhaps resulted from less thorough operative technic.

DR. S. W. RANSON, St. Louis: Some one raised the question as to the proof that large fibers in the sympathetic system are sensory. That proof was offered more than twenty years ago by Edgeworth, and his findings have been confirmed by me. If the roots of spinal nerves are cut proximal to the spinal ganglions, all the motor fibers degenerate; the sensory fibers remain. If, after section of the roots of the thoracic nerves, one studies the corresponding white rami, one finds that these large fibers remain because their cells of origin are in the sensory ganglion. One clear evidence that the pain fibers from the heart do not pass upward through the cervical sympathetic trunk to the superior cervical sympathetic ganglion is the fact that in a considerable number of cases characteristic anginal pain has recurred after removal of the superior cervical sympathetic ganglion. In one such case, after removal of the left superior cervical sympathetic ganglion, pain of typical anginal character recurred, and in the course of months it became even worse than before, as a result of the progress of syphilitic aortitis. It seemed that it would be difficult to remove the lower part of the cervical sympathetic trunk and the first thoracic ganglion. So Dr. Sachs cut the sensory roots of the first four thoracic nerves of the left side approximately three weeks ago, and since that time the patient has been absolutely free from pain. That, I think, answers the question that was raised by Dr. Lambert in regard to the variations in sensory paths, showing that after all if the dorsal roots of the first three or four thoracic nerves are cut on the left side, the pain disappears. Dr. Cutler mentioned a case in which, after bilateral removal of the stellate ganglions, pain persisted. I should like to know whether, perchance, that pain is not the collar pain round the upper part of the neck over the jaw and shooting up on the side of the head which many years ago was attributed by Head to a reference from the vagus into the distribution of the upper cervical and trigeminal nerves.

DR. ALEXANDER FORBES, Boston: It has been said that it was "up to" physiology to solve the problem of tonus. I have found no convincing evidence that tonus is anything more than a name, by which I mean that tonus is not in any fundamental respect different from any other contraction. If one stimulates a frog's muscle with a single, instantaneous stimulus, one gets a brief contractile twitch lasting about a tenth of a second. If one stimulates the muscle repeatedly with stimuli at a rate of more than twenty a second, one gets sustained contraction, but there is no fundamental difference between those contractions; in the latter case the disturbances follow one another so rapidly that contraction is mechanically sustained. I very much doubt if skeletal muscle, except under peculiar conditions, such as fatigue, producing increase in acidity, has two kinds of contraction; that is, whether the sustained contraction we call tonus is fundamentally different from the briefer contractions, any more than the tetanized muscle differs fundamentally in its behavior from the muscle subjected to a single stimulus. As to the work of Langelaan, in which he attempted to show a fundamental distinction between plasticity and contractility in muscle, I have examined his work carefully and can find no logic in it whatever. He definitely misquotes the work of Lucas and misinterprets some of his observations. He bases his distinction apparently on the difference between a twitch produced by a single brief stimulus and a reflex contraction of gradual onset; but the reflex contraction, as far as the evidence was concerned, was presumably built up of individual responses of the same fundamental character as that appearing in the twitch. Sherrington, Liddell and Fulton recently reported a large volume of very important work showing how the impulses of muscle sense serve to produce reflexly sustained muscular contraction. They are of the most profound importance. I should have mentioned, perhaps, a possible explanation for the effects of sympathectomy. If the disturbance of circulation affects the intramuscular receptors, there may be some modification of their function, and an alteration of the afferent impulses arising therefrom with a consequent change in reflex effect. I do not think we are justified in assuming, yet, that there is a plastic tonus or that tonus is fundamentally different in any way from other sustained contraction of voluntary or reflex origin.

DR. LOYAL DAVIS, Chicago: Many new methods of treatment for spasticities of the extremities have been advocated. With reference to the experimental work of Hunter done on fowls, it must be borne in mind that it is very difficult to perform a ramisectomy on birds without seriously injuring the anterior motor roots of the animal's plexus. Of course, by such trauma one produces an immediate flaccidity in the wing of the same side. This has been the almost universal objection to this particular experimental work, and one can easily understand such difficulties if one attempts to perform this operation. The extensive posterior root sections practiced by Trendelenburg and his careful controls and subsequent records would tend to support the view that some other factor than posterior root section is operative in producing the drooping of the wing shown in Hunter's animals. Trendelenburg concluded that somatic afferent and sympathetic denervation of a single wing did not produce drooping or a defect in voluntary and reflex movements. We have operated on cats in these experiments. If this hypothesis is fundamentally sound, then we should get results regardless of the animal operated on. Unless we can prove experimentally that we have a basis for this operation, then we have no surgical right to subject these patients to such an operation. In other words, we are operating in an empiric manner. Another point with which all are familiar is: Any new treatment which orthopedic surgeons, general surgeons or anybody else has instituted for the treatment of spastic diseases of the extremities has always succeeded early in the history of that treatment.

DR. RAYMOND W. MCNEALY, Chicago: I have only one thought in mind in discussion, and that is to bear witness to the fact that there have been reactions and improvements that have resulted in a number of cases in which operation was done by perivascular sympathectomy. The point I wish to make is that these results cannot be directly attributed to the essential part of the operation; that is, the stripping of the perivascular sheath. Comparable results have been obtained by section of the sensory nerve of the area, by subcutaneous injection of foreign protein material. So far as the operation itself goes, we must have more proof that it in itself is advisable.

DR. ELLIOTT C. CUTLER, Cleveland: It has been most encouraging to note the great appreciation of the physiologic processes involved in the foregoing discussions. I should like to emphasize that the surgical treatment of angina pectoris is still in the experimental phase. The suggestion of Dr. Coffey that infiltration of the nervous structures dur-

ing operation renders them more easily visible is of benefit to the surgeon. I cannot agree, however, with his reasoning that in the operation of removal of the superior sympathetic ganglion they interrupt the nervous arc on the efferent side, for stimulation at this point does not result in the signs and symptoms of angina pectoris. Dr. Lambert's proposal that alcohol be injected into the root ganglions, as advocated by others, seems unsafe; and, since it is a blind procedure, and one cannot be sure just what is affected by the injection, it should not be used during the experimental stage of the investigation of this matter. I would further emphasize the embarrassing sequelae that may follow operation in this field. Horner's syndrome is a small matter compared with the bizarre pain that may appear in the jaw, the neck or the chest. These pains do not seem to be explained by interfering with sensory nerves on the operative field but may result from circulatory changes due to interference with the vasoconstrictor apparatus or from neuronic degeneration in the sympathetic nerves extending back into sensory nerve areas. Dr. Ranson has questioned the return of pain on the right side in one of our patients submitted to a bilateral Jonnesco operation. I feel that this may be due to stimuli reaching the cord through the second dorsal ganglion.

Clinical Notes, Suggestions, and New Instruments

DOUBLE TUBAL PREGNANCY WITH RUPTURE OF BOTH TUBES

FRED E. CLOW, M.D., WOLFEBORO, N. H.

This case is reported because of two unusual features: the simultaneous occurrence of pregnancy in the two fallopian tubes, and rupture of both tubes with a considerable interval separating the two accidents.

H. U., an unmarried woman, aged 41, was taken suddenly ill, June 26, with severe cutting pain in the right lower quadrant of the abdomen, with faintness and nausea. The pain occurred while lifting a heavy chair. The physician who was called did little, evidently, beyond giving a hypodermic injection of a narcotic. The patient stayed in bed for three days and then returned to work. She noticed only some tenderness of the abdomen and general muscular weakness. July 10, a similar seizure occurred with pain in the left lower quadrant of the abdomen, faintness and vomiting. There was a slight vaginal discharge of dark blood. The same physician was consulted, but no treatment was prescribed save rest in bed and an ice bag to the abdomen.

July 30, the patient was brought to the hospital. She admitted that there had been no menstrual period for two months preceding the first attack of pain. Examination showed moderate distention of the abdomen, with dulness in both flanks and throughout the lower part of the abdomen. There was moderate distention and general tenderness and rigidity of the whole abdomen. Vaginal examination showed a soft, tender uterus, a boggy mass filling the pelvis, and a foul, dark discharge from the cervix. The temperature was 100.8 F. (39.8 C.); pulse, 108. The patient looked ill.

The abdomen was opened under ether anesthesia. The pelvis was filled with organizing blood clots. The right tube, ovary and appendix were glued together in a mass of fresh adhesions. The distal third of the tube was distended, with an opening 2 cm. long filled with blood clot and organizing material. The left tube was enlarged and, with the ovary, was similarly adherent to the uterus, bladder and small intestine. The left tube was removed, the abdomen cleared of clots, and the wound closed with a cigaret drain in each side of the pelvis.

Examination of the specimens showed, in the right tube, a distention of the distal half, with an obvious tear, filled with blood clot. The left tube was distended throughout. In the middle third was a tear 2 cm. long with a blood clot protruding through it. No trace of either fetus could be found.

The patient developed bronchopneumonia and died on the eighth day.

OCCUPATIONAL DERMATITIS FROM WOOD TURPENTINE*

CAREY P. MCCORD, M.D., CINCINNATI

The best grade of turpentine is obtained by tapping the living pine trees collecting the resins that exude, and refining them. The turpentine so derived is "gum spirits of turpentine." This method is wasteful of timber, and its use is rapidly diminishing. Lumbering operations afford every year a vast lot of waste wood. Attempts are being made to produce a high grade of turpentine from these rejected woods and uprooted ancient stumps through steam distillation and destructive distillation methods.

The Naval Stores Act of 1924, recognizes these grades of turpentine:

"Gum spirits of turpentine," which means spirits of turpentine made from gum (oleoresin) from a living tree.

"Steam distilled wood turpentine," which is wood turpentine distilled with steam from the oleoresin within or extracted from the wood.

"Destructively distilled wood turpentine," wood turpentine obtained in the destructive distillation of the wood.

"Wood turpentine," which includes steam distilled wood turpentine and destructively distilled wood turpentine.

Wood turpentines in many respects are satisfactory for industrial uses. The costs of steam distilled wood turpentine and destructively distilled turpentine are lower than for gum spirits of turpentine. However, these new process turpentines are proving far more irritating to the skins of exposed workers; the destructively distilled is probably more irritating than the steam distilled wood turpentine.

In the distilling process, the liquid condensate flowing from the still, from which wood turpentine is subsequently derived, is termed "crude pyroligneous liquor.[1] This is a heterogeneous mixture of chemicals which includes acetic acid, formic acid, methyl (wood) alcohol, formaldehyde, acetaldehyde, acetone, acrolein, methylamine, furfuraldehyde, phenols, benzene, pyridine, isoprene, methyl-ethyl-ketone and some others. Many of these constituents present with the terpenes will readily be recognized as well known skin irritants. In the pyroligneous acid (one fraction of the crude pyroligneous liquor) the content of certain irritants is, approximately: acetic acid, 4 per cent; methyl alcohol, from 2 to 4 per cent; formic acid, 1 per cent; formaldehyde, from 1 to 2 per cent; furfuraldehyde, 1 per cent; methal acetate, from 2 to 4 per cent. The constituents of wood turpentine, of course, vary as to nature and percentage with every lot produced. With such an array of possible irritants, the occurrence of dermatitis among exposed workers is almost inescapable.

At the present time two outbreaks of wood turpentine dermatitis are under my observation. The exposed workmen are in unrelated industries, but utilize the same grade of distilled turpentine. In one factory about fifty workers are exposed to naphtha or to wood turpentine. For a period of twelve years, ending a few months ago, gum spirits of turpentine was employed as the paint solvent. During this period only about three cases of occupational skin disease developed every year. Recently wood turpentine was substituted for the grade formerly in use. During the last two months, thirty-five cases of dermatitis have been reported by the foreman. At this time ten cases are under my observation in this factory. The skin lesions exhibited in these cases have no specific characteristics. They resemble the dermatitis frequently seen from a great variety of chemicals, such as naphtha and benzene.

In this situation, immediate betterment may be had by returning to the use of gum turpentine. This measure promises only temporary relief, for the method by which gum turpentine is now obtained is doomed to industrial extinction. Freedom from this hazard will come about when in the distillation process careful fractionization is provided, in order that these numerous irritants may be kept apart from the relatively harmless terpene oils.

34 West Seventh Street.

* From the Industrial Health Conservancy Laboratories.

1. Bunbury, H. M.: The Destructive Distillation of Wood, London, Benn Brothers, Ltd., 1923, p. 104.

AN EVER-READY SUTURER

MYER M. MARBEL, M.D., CHICAGO

The device here described and illustrated was developed with the idea of furnishing the physician a convenient, sterile and ever-ready combination for sewing up wounds. It embodies features of simplicity, efficiency and convenience that

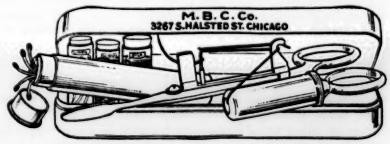


Fig. 1.—Suturer in case.

will afford increased skill and greater speed (from four to six stitches per minute), with better asepsis and less chance for contamination on the part of the operator. In caring for emergency wounds away from office or hospital, it lends itself to a high degree of convenience and safety.

To one arm of the needle holder-hemostat is attached a tank holding 300 inches of suture material; the suture is immersed in alcohol and contained within a removable glass vial. To the second arm of the needle holder-hemostat is attached a threader with two vises that will automatically thread the needle and then anchor the suture material to the needle's eye. On and below the grip-jaws of the same needle holder-hemostat are scissors blades for cutting off the ends of each stitch made, as well as the anchored knot on the needle.

These three additions to the ordinary needle holder-hemostat form a one unit instrument that enables the operator to do in an automatic manner, with fine technic, five or six stitches per minute.

The manipulation is as follows:

The needle is threaded.

The needle is anchored.

The knot on the triangle is made. (The needle goes through the center of a triangle formed by two sides of the suture material from the wound as its apex and the instrument as the base.)

Both ends of the stitch made are cut off.

The knot is cut off; the needle is anchored and rethreaded for the next stitch.

As the device is held in the right hand constantly with its tank side over the thumb, and the left hand is assisting, the operator is thus equipped for any number of stitches with a minimum loss of blood in profusely bleeding wounds. There is little possibility of contaminating either suture material or instrument, as nothing need be laid down or picked up again.

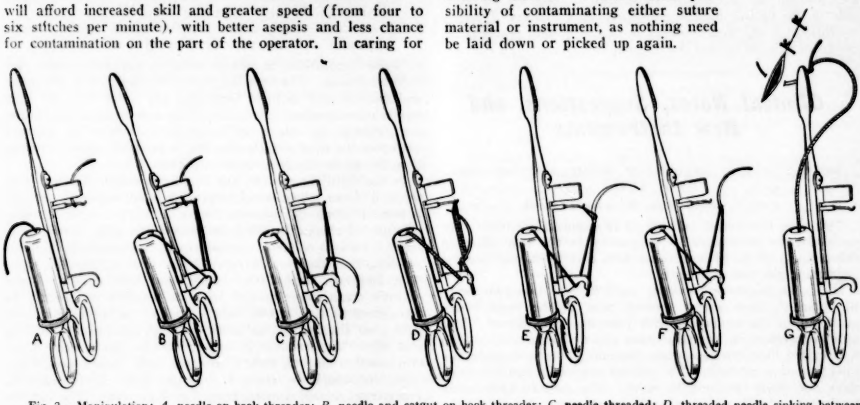


Fig. 2.—Manipulation: *A*, needle on hook threader; *B*, needle and catgut on hook threader; *C*, needle threaded; *D*, threaded needle sinking between lines for anchoring; *E*, needle half anchored; *F*, needle anchored; *G*, suturer in use.

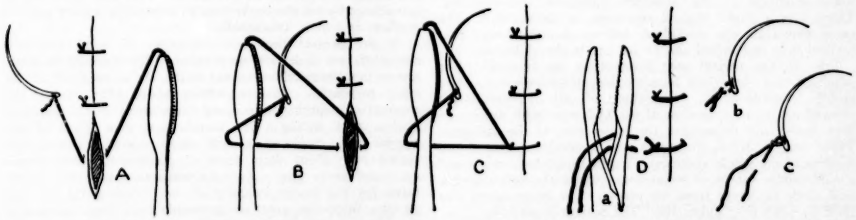


Fig. 3.—Further manipulation: *A*, two sides of catgut forming an angle (needle kept in left hand and instrument in right hand); *B*, knot (first half) made on triangle (needle goes through center of a triangle formed by catgut from wound as its apex and instrument as its base); *C*, knot (second half) closed on triangle; *D*, with scissors within suturer, ends (*a*) are cut off at wound; knot anchored (*b*) at needle's eye cut off and needle rethreaded for next stitch; *c*, too long end cut off before stitching is started.

The grip-jaws are concave in the center and hold any curved needle at two points firmly and without danger of breaking it.

The suture tank is reloaded by unscrewing it, pushing out the empty bottle, and inserting a new fresh bottle.

The device is sterilized as a unit in its tightly closed metal container, either in dry heat or by boiling.

This device has given excellent satisfaction for skin stitches, circumcisions, repairs of the perineum in the homes of the poor, and all other types of suturing in which it has been used.

3267 South Halsted Street.

APHONIA FROM GOITER *

JOHN WILLIAM SHUMAN, M.D., LOS ANGELES

Loss of voice is a rare condition when it is caused by pressure of the thyroid gland. R. C. Coffey [1] does not remember having had a case of aphonia which was relieved by the removal of a goiter.

G. W. Crile [1] says: "About 4 per cent of our cases show a unilateral paralysis and often present some difficulty in speech but usually are thoroughly compensated. With the exception of malignant cases I have never had a case with complete loss of voice. The functional side of such a case must of course, be considered. A laryngoscopic examination would clear up this point."

E. S. Judd [1] cannot recall a case of this sort except one or two in which there was a hysterical aphonia which was relieved by operation; these, however, showed no definite paralysis of the cords on laryngoscopic examination.

REPORT OF CASE

A white man, aged 30, married, was admitted, May 28, 1925, to the service of the throat clinic with the complaint, loss of voice, of two months' duration, which had come on gradually. The patient continued to lose weight until July 2, when, during consultation, a definitely enlarged thyroid was found and given as a cause for the aphonia.

The patient was nervous; he had tachycardia; the palpebral fissures were wide; the upper lids lagged; the pupils were dilated; the skin of the face and neck was cyanotic; effort increased the symptoms; when he attempted to speak, the superficial jugulars were visibly distended and the base of the neck ballooned, most markedly on the right side. Roentgen-ray findings by Dr. R. C. Shawhan were: increased density in the soft tissues in the thyroid region; lower poles on a line with the third dorsal vertebra. Major Frisbee found in the chest a dilatation of a bronchus on the right side, evidently due to obstruction and pressure from without.

July 14, Dr. Merrill, the throat consultant, found general congestion of the larynx and trachea; the cords moved well, and the aperture was symmetrical in all positions. The cords gave evidence of some thickening. July 28, he reported marked subglottic inflammation, with thickening of the mucosa extending into the trachea—a definite tracheitis.

September 17, James A. Mattison removed both lobes of the thyroid, and the isthmus were resected, sufficient thyroid being left next the trachea to take care of physiologic function. The capsule of the thyroid was firmly adherent to the gland, and the two lobes extended around the trachea posteriorly; with much difficulty the capsule was freed and the lobes were delivered. Dr Williams, the pathologist, reported "hypertrophy of the stroma, exophthalmic goiter," on the resected tissue.

The patient recovered his voice during the operation. His convalescence was uneventful and he was discharged, September 29, stating that he felt fine. He appeared well. His voice was clear, with good tone. He had no difficulty in breathing or deglutition. He had gained 12 pounds (5.4 Kg.), and his general condition had improved markedly.

2007 Wilshire Boulevard.

* From the departments of surgery and internal medicine, National Soldiers Home Hospital.

* Read before the Santa Monica Branch of the Los Angeles County Medical Society, Feb. 9, 1926.

1. Personal communication to the author.

Nature of Present-Day Health Movements.—It is clear that the policy of present-day health movements is increasingly directed to educational methods. It is with these objects that sanitary inspectors, welfare workers or health visitors are employed, that clinics are established and that industrial employers safeguard their employees. "Health Weeks," "Baby Weeks," lectures, literature, models, exhibitions, all help to create an educated public opinion, and we all of us appreciate the services of the statesman, distinguished cleric, or popular actor, or actress who is good enough, on occasion, to convey to the public the homely truths, which are so much more arresting when coming through these channels rather than through the usual ones.—Hope, E. W.: *Proc. Roy. Soc. Med.* **19**:29 (March) 1926.

Special Article

THE TECHNIC OF MEDICATION

A SERIES OF ARTICLES ON THE METHODS OF PRESCRIBING AND PREPARING, THE INDICATIONS FOR, AND THE USES OF VARIOUS MEDICAMENTS *

BERNARD FANTUS, M.D.
Associate Clinical Professor of Medicine, Rush Medical College
CHICAGO

(Continued from page 1911)

GENITO-URINARY MEDICATION

URETHRAL MEDICATION

The administration forms for medication of the urethra in descending order of importance are: (1) lotions, (2) urethral suppositories, and (3) ointments.

Urethral Lotions.—These may be given by injection, instillation or irrigation. The mucous membranes of the urethra and of the bladder being highly sensitive, only mild solutions, such as could be tolerated in the eye, should be used on these membranes. Solutions should never be strong enough to cause more than temporary stinging or pain. The lotions should always be employed warm, as in acute cases, at least, cold solutions are liable to produce irritation, and heat increases the activity of all chemical agents. What is perhaps not sufficiently realized is the great absorbing power of the urethra, and that the absorbing power of the posterior urethra is even greater than that of the anterior urethra. This is in marked contrast to the very poor absorption from the urinary bladder, which is all the more interesting as the upper portion of the urinary tract, the ureter and the renal pelvis are again highly absorptive. These facts, which were established experimentally most especially by Macht,[67] and also by Magoun,[68] are of practical importance, especially in connection with the application of local anesthetics to the urethra, poisoning from which has been repeatedly observed clinically. Rather surprising is the great absorptive power of the prepuce, which must be borne in mind when local anesthetics are applied to it for surgical purposes.

Before using a urethral lotion the patient should always urinate, as the urine cleanses the mucous membrane of exudate and permits the remedy to come into more direct contact with the diseased part. It also lessens the liability of transportation of infectious material into the upper portions of the urethra.

Urethral Injections.—For self-administration of injections into the anterior urethra, the patient should be sitting well forward on the edge of a chair. If it is very important to obviate the possibility of the fluid entering the bladder, the patient should sit on a folded towel, which will help to cut off the deep urethra; usually, however, the cut-off muscle of the urethra suffices to secure this result. The penis should be held

* This is the twenty-sixth of a series of articles on "The Technic of Medication." When completed the articles will be assembled in book form.

67. Macht, D. I.: Concerning the Absorption of Drugs and Poisons from the Ureter and Pelvis of the Kidney, J. Urol. **2**: 481, 1918; On the Absorption of Drugs and Poisons from the Bladder and the Urethra, I. Absorption of Apomorphine and Morphine, ibid. **2**: 43 (Feb.) 1918; II. Absorption of Various Alkaloids, Antiseptics, Local Anesthetics and Salts, ibid. **2**: 211 (June) 1918; On the Absorption of Local Anesthetics Through the Genito-Urinary Organs, J. Pharmacol. & Exper. Therap. **16**: 435 (Jan.) 1921.

68. Magoun, J. A. H., Jr.: Absorption from the Urinary Tract, J. Urol. **10**: 67 (July) 1923.

between the thumb and the fingers of the left hand. The meatus is opened by gentle pressure; the syringe (from 10 to 15 cc. capacity with blunt, conical tip) is introduced; and, while the thumb and index finger of the left hand make water-tight closure of the urethral orifice with the tip of the syringe, its contents are gently discharged into the urethra. At first only about 4 cc. should be injected at a time. In the later stages of the disease from 12 to 15 cc. may be introduced. Any air present in the syringe should be expelled, before injecting, by pressing on the piston while the tip of the syringe is elevated. As the first injection is chiefly for the purpose of cleansing, it may be permitted to escape immediately. After the second and third injections, the syringe is laid aside; and, while the left hand maintains closure of the meatus, the right hand attempts by gentle stroking pressure over the under side of the penis to distribute the solution to all portions of the canal. In this manner, the injection is retained for five minutes, when another syringeful may be injected and retained for an even longer period. These treatments are repeated in acute cases from three to six times daily, with diminution of the discharge morning and evening only. It must be remembered that sometimes the continued use of injections maintains a discharge, which may persist for a week after their discontinuance.

Should a sedative injection be desired, a 0.5 per cent solution of cocaine hydrochloride in equal parts of mucilage of acacia and water might be useful. For local anesthesia of the urethra, cocaine should not be used, as it is incalculably toxic. Though procaine hydrochloride U. S. P. is relatively inefficient when applied to intact mucous membrane, it is comparatively safe. Complete urethral anesthesia cannot be expected from it. One injects into the urethra from 8 to 15 cc. of a 2 per cent procaine solution, to which 2 per cent of sodium bicarbonate might well be added, as it intensifies the action of the alkaloid, and from 3 to 5 drops of the 1:1,000 solution of epinephrine. The latter is added just before use, as the mixture decomposes on standing. As the solution should remain in the urethra from fifteen to thirty minutes—the longer the better—a clamp for the penis (such as Stockmann's) is desirable. To lessen the sensitiveness of the deep urethra, an injection of 15 cc. of the solution is forced into the urethra five minutes after the first one has been applied. This will enter the membranous portion of the urethra and should be permitted to act for twenty or twenty-five minutes. As procaine is a hydrochloride and the chloride ions would precipitate and inactivate a succeeding silver nitrate instillation, a procaine nitrate solution (5 per cent) should be employed instead, the alkali should be omitted, and the epinephrine, which is likewise used as hydrochloride, dispensed with for the same reason. To anesthetize the deep urethra completely, infiltration of the tissue surrounding the prostate by from 75 to 100 cc. of 0.5 per cent procaine solution is required. A 4 inch needle is used for the purpose. For anesthesia of the bladder, instillation of anesthetic solutions is entirely ineffective for reasons now well understood; and parasacral injection must be employed.

Antiseptic lotions must never be employed with the idea of eradicating an established infection. This is impossible. All gonorrhea heals, if it heals at all, through the natural reaction of the infected organism. This reaction can be favored by our therapeutic means; and we must be ever careful not to hinder it. The more acute the inflammation, the milder should be the therapy. In acute gonorrhea, injections of mild antiseptics without the use of a catheter are chiefly of value for cleansing purposes. Regarding irrigations at this stage, opinion is divided. In the chronic stage, astringent injections, irrigations, and instillations combined, if required, with dilation are undoubted means of expediting a cure. It is an important principle to treat all the affected portions simultaneously. Thus, to treat the anterior urethra only, when the posterior urethra is also affected, leads to so-called relapses.

The most popular antiseptics for injection into the urethra in case of gonorrhea are silver compounds, because silver is believed to be specifically gonococcidal. The nonastringent silver compounds are preferred in the early stages, while gonococci are present, as the discharge obviously helps in the elimination of the invading gonococci. Not a checking of the discharge, but of the proliferation of the gonococci, is our aim. The more profuse the discharge, the milder should be the injections, and vice versa. Mild silver protein, in recently prepared solution of 2, 5 and even 10 per cent strength, and strong silver protein in 0.25, 0.5, 0.75 and rarely 1 per cent strength are favorite agents for this purpose. The milder remedy and the lower concentration are employed at first; and the concentration, strength of agent, and duration and retention of the injection are gradually increased as the condition becomes less acute.

To use powerful germicidal, disinfectant remedies in the treatment of this or other infected membrane is veritable folly: for the micro-organisms that have invaded a membrane cannot be killed, while the membrane will surely be injured. Better to leave the membrane in peace than to treat it *cum furore*. Only for prophylactic or abortive treatment are germicidal applications admissible. It is true, they irritate; but, if they succeed in exterminating the pathogenic organisms while they are still on or in the surface, they may check the further development of the disease. Thus, 10 per cent strong silver protein in glycerin solution, instilled into the fossa navicularis by means of a medicine dropper so as to penetrate the anterior urethra about half an inch, is said to be an efficient prophylactic of gonorrhea, provided it is employed early enough after the contaminating intercourse. As a preventive against syphilis, the "prophylactic ointment" of the National Formulary, the ointment of mild mercurous chloride (30 per cent), should be used at the same time.

Astringents—from 0.2 to 1 per cent zinc sulphate, or 1:2,000 silver nitrate—should not be employed until the later stages after the gonococci have disappeared from the discharge because, though astringents promptly lessen the discharge, they create a false sense of success and security; for, as soon as the treatment is stopped, the discharge is liable to recur. Their action is too superficial to destroy the gonococci that have invaded the tissue; and, by checking the discharge that might have carried them away, they may actually prolong the disease and even invite complicating deep invasion. Perhaps the mildest of the astringent lotions is Ricard's injection, a "shake mixture" compounded with 0.5 per cent of zinc sulphate and 1 per cent of lead acetate, with a little mucilage of acacia, to favor suspension, in rose water. To this, 2 per cent each of tincture of gambir and of tincture of opium were added in the original formula. This mixture is chemically incompatible but is entirely admissible clinically, as the finely precipitated lead sulphate is believed to exert a beneficial protective influence on the inflamed membrane. There is a slight excess of lead acetate.

Instillations.—Instillations are employed to medicate limited portions of the urethra with small quantities of rather strong solutions. They must not be used in acute cases or in the presence of acute complications of chronic cases. They are, on the other hand, very useful in the chronic stage, most especially in chronic posterior urethritis. While the urethral injections described above are generally entrusted to the patient for self-administration, instillation of medicaments into the posterior urethra requires the aseptic technic of the physician. When the three-glass test or the symptoms, such as recrudescence of the discharge, and burning pain in the perineum, indicate involvement of the deep urethra, these instillations are administered by means of a Guyon or analogous syringe, or a catheter is passed down to the posterior urethra (from 5½ to 6 inches), but not far enough to enter the bladder. Rather strong solutions are employed, generally from 1 to 2 per cent solutions of silver nitrate, with the intention of inducing a curative hyperemia; indeed, of substituting an acute inflammation with a tendency to heal for the chronic inflammation without this tendency. From 5 to 20 drops is instilled if the prostatic urethra alone is to be treated; from 5 to 10 cc., if the base of the bladder—which is also usually affected—is to be medicated likewise. In the latter case, it is well to leave a little urine in the bladder to protect the more sensitive fundus. In removing the catheter, care must be taken to avoid having any of the solution drip along the anterior urethra. This is done by slightly withdrawing the piston of the syringe before removing the catheter. There is generally considerable burning on urination, and there may be increase of the discharge during the first twenty-four hours following an instillation. If the reaction is severe, rest in bed, an opium suppository, and heat to the perineum should be employed. These instillations do not have to be repeated oftener than twice a week. The next instillation should certainly not be given until all irritation produced by the previous instillation has completely disappeared.

Such instillations are also useful to lessen the congestion of the deep urethra, which is a frequent cause of irritable weakness of the sexual functions, resulting in deficient erection and premature ejaculation. They also, of course, have a psychic value in these cases. Instillations into the anterior urethra are advantageously employed in those cases of chronic gonorrhea in which there is found localized tenderness and induration on passage of a bulbous bougie. Such areas not only maintain a chronic discharge, but are liable to be the beginning of strictures.

Irrigation.—Urethral irrigations, though employed according to Janet's recommendation within the first thirty-six hours of an attack of gonorrhea, are probably best avoided in fresh cases of gonorrhea. They irritate too much and are liable to lead to posterior urethritis, prostatitis and epididymitis. When, however, the discharge continues to carry gonococci, and when these parts are affected, they may be used with advantage. They should always be administered by the physician. The apparatus consists of an irrigating reservoir raised not more than 4 feet, less if the pressure produces pain; a Valentine or Chetwood two-way blunt tip glass urethral nozzle, connected by means of 8 feet of rubber tubing to the irrigator, and another shorter piece of rubber tubing leading from the outflow tube to the waste-pail. A rubber apron with a hole for the penis protects the clothing of the patient, who may stand or be seated on the edge of a chair for irrigation of the anterior urethra, but should be lying down for posterior irrigation. The glans penis and the lips of the meatus should be washed with soap and water, followed by 1:5,000 mercuric chloride solution. A hot solution of potassium permanganate, from 0.25:1,000 to 1:1,000, is most commonly employed. The chief effect of this solution is not so much a destruction of the gonococcus as the production of a "serous reaction," a copious thin secretion which, it is asserted, clears the mucosa quite rapidly of gonococci. This, however, is not always the case; and, if gonococci persist, it is well to change after a while to silver nitrate, 1:12,000 to 1:8,000, or mercuric oxycyanide, 1:3,000. The latter is conveniently prepared by adding 30 cc. of a 1 per cent stock solution to 1 liter of hot water. The patient should, as usual, empty his bladder before the irrigation. The operator, holding the penis behind the glans between the thumb and forefinger of the left hand, and compressing the rubber inflow tube between the thumb and index finger of the right hand, inserts the nozzle into the meatus. He then releases the inflow tube, at the same time closing the outflow tube by means of his right little finger. As soon as the urethra is filled, the inflow tube is pinched and the outflow tube released. Thus, the urethra is alternately distended with solution and emptied, without removal of the nozzle. For irrigation of the deep urethra, the anterior urethra is irrigated as just described, and then a catheter is passed until the urine just escapes, when it is withdrawn about an inch, and from 100 to 350 cc. is gently injected through the posterior urethra into the bladder. The catheter having been then removed, the patient empties the bladder, thus passing the solution once more through both posterior and anterior urethra. These hot irrigations should be continued until the discharge is free from gonococci. In very resistant cases, irrigations should be combined with dilation.

Urethral Suppositories.—These little rods, pointed at one end, also known as medicated bougies, generally made of glycerogelatin, may be inserted into the urethra, where they melt, releasing their medication. They are made in two lengths: either 7 cm., weighing 1 Gm., or 14 cm. long, weighing 2 Gm. The agent remains in contact with the mucous membrane for quite a time, which may secure more thorough medication, but also produces greater irritation. Strong silver protein (5 per cent) bougies may be used in venereal prophylaxis. For treatment, 0.1 per cent silver nitrate, 1 per cent zinc sulphate, or 1 per cent resorcinol bougies are employed.

Ointments.—Ointments may be applied to the urethra by means of a sound smeared with the medicament; or else by having the ointment dispensed in a collapsible tube and introducing it into the canal by means of a small, soft rubber tube, as described in connection with rectal medication by ointment. On the whole, ointments do not yield better results and are more troublesome than bougies.

The bladder and urethra may be medicated in a very mild degree by the peroral administration of certain drugs that are freely eliminated in the urine. Of course, the degree of medication must of necessity be much less than when a remedy is applied locally, and the effect of the agent on the alimentary tract and system has to be reckoned with; but the constancy of the medicinal impression may counteract to a certain degree its feebleness.

(To be continued)

THE JOURNAL OF THE AMERICAN MEDICAL ASSOCIATION

535 NORTH DEARBORN STREET - - - CHICAGO, ILL.

Cable Address - - - - "Medic, Chicago"

Subscription price - - - - - - Five dollars per annum in advance

Please send in promptly notice of change of address, giving both old and new; always state whether the change is temporary or permanent. Such notice should mention all journals received from this office. Important information regarding contributions will be found on second advertising page following reading matter.

SATURDAY, JUNE 26, 1926

GOITER PROPHYLAXIS IN NON-GOITROUS AREAS

For the orderly progress of medicine, "novelties" of diagnosis and treatment should be investigated thoroughly as promptly as possible. This is true not merely because of the desirability of securing effective helps in practice at the earliest opportunity and of revealing deceptions or disappointments before false hopes are engendered; but also because careful investigation usually discloses the limitations of new procedures and sometimes points the way to their betterment. Illustrations of this may be found in the more recent histories of the use of arsphenamine, insulin, cholecystography and various antitoxic serums. The expectations of their early exploitation have not always been realized completely; yet this has led to improvements in technic and limitations of application that will in the long run render a more permanent and helpful contribution to the medical art.

The so-called thyroid or goiter surveys that have been initiated in various parts of the world during the last few years have disclosed an unexpected incidence of thyroid enlargement.[1] It is believed that the adolescent goiter or thyroid hyperplasia is a compensatory reaction arising in the course of a metabolic disturbance and immediately dependent on a relative or absolute deficiency of iodine. The efficacy of small doses of this element in preventing the expected incidence of such thyroid enlargements has been abundantly demonstrated. As an outcome, "goiter prophylaxis" has been instituted particularly among school children in many regions. It has also been attempted on a wholesale basis among larger groups of the population through the common use of iodized table salt or the treatment of potable water supplies with iodine. Of late, this procedure has provoked some protests,[2] owing to the alleged possibility of producing symptoms of hyperthyroidism in persons who do not require iodine medication.

According to Hayhurst,[3] goiter is associated with districts of glacial formation in contradistinction to districts of nonglacial formation. Districts of glacial formation contain less iodine in the soil and in the water supply than do districts of nonglacial formation, because the soluble sodium salts of iodine have been removed by the melting ice. The goitrous area in the United States is that part of the country which was covered by the three great ice sheets, the lower border of which extended from the eastern part of New York State, south below Cincinnati and nearly to the Pacific coast.[4]

How unwarranted it may be to assume infrequency of simple goiter or goiter of a mild type along the sea coast merely because of proximity to the ocean has recently been indicated in THE JOURNAL[5] in relation to conditions in New Zealand. Mere geographic location is not the only factor that protects or involves. The distribution of iodine in the soils and foods is highly significant. The actual facts of goiter incidence therefore help to prevent a false sense of security in a supposedly "safe" locality. They may also avert unnecessary concern in other regions. Thus, observations on about 12,000 school children in New York show a relatively small number of deviations from the thyroid normal, so that the metropolis can truly be termed a "nongoitrous" center. According to Frances Cohen,[1] who made the survey, the incidence of simple goiter in school children and in the older group of women, and the investigation into the conditions of iodine intake which determine endemic centers of goiter, do not justify a conclusion that New York City is an endemic center of goiter. The mild sporadic cases of simple goiter that occur among school children seem to be dependent on a relative insufficiency of iodine, due mainly to a physiologic cause; namely, puberty. Thyroid enlargements occur in New York about three times more frequently in girls than in boys. Simple goiter among children in New York reaches its peak at puberty, between the ages of 13 and 15, in both girls and boys. The percentage of incidence of normal glands seems to vary inversely with the degree of activity of the menstrual cycle. The mild cases of simple adolescent goiter observed among children in New York seem to show, in the case of girls, a distinct tendency to spontaneous regression after puberty; in that of boys, a complete regression.

Such observations, it is argued, do not justify a recommendation for the adoption of general municipal or school administered prophylaxis as a public health

1. A review of some of these is given by Cohen, Frances: Goiter in Children in New York City, Am. J. Dis. Child. **31**: 675 (May) 1926.
2. Hartsock, C. L.: Iodized Salt in the Prevention of Goiter, J. A. M. A. **86**: 1334 (May 1) 1926. Kimball, O. P.: Induced Hyperthyroidism, ibid. **85**: 1709 (Nov. 28) 1925. Jackson, A. S.: Iodine Hyperthyroidism, Am. J. M. Sc. **170**: 271 (Aug.) 1925. Goiter Prophylaxis, editorial, J. A. M. A. **85**: 1971 (Dec. 19) 1925.
3. Hayhurst, E.: Simple Goiter—An Iodine Starvation Disease, Ohio Conference on Water Purification, State Dept. Health, Third Annual Report, Nov. 21-24, 1923, pp. 76-82.
4. McClendon, J. F., and Hathaway, J. C.: Inverse Relation Between Iodine in Food and Drink and Goiter, Simple and Exophthalmic, J. A. M. A. **82**: 1668 (May 24) 1924.
5. Endemic Goiter: The Lesson from New Zealand, editorial, J. A. M. A. **86**: 953 (March 27) 1926.

measure in New York. Individual prophylaxis, the early recognition and cure by individual physicians, and public health education in goiter prevention and cure would seem adequate. There is presumable wisdom in Frances Cohen's advice that, because of the comparatively small incidence of simple adolescent goiter in New York, its mild type and its tendency to regress spontaneously after puberty, great care should be taken not to alarm the public by unduly or unwisely stressing the conditions.

THE FORMATION OF BILE PIGMENT

The old story of the bile pigments within the body has been entirely rewritten. The new presentation has not been the result of a single stroke of experimental good fortune or scientific intuition, but has been developed chapter by chapter through substantial investigation, mostly in American laboratories. Experimental technic has played a significant part in the success of the newer discoveries. They were not the incidental by-product of the clinic.

The liver has lost its extreme dominance in relation to the genesis of the bile pigments. Reviewing the subject little more than a year ago, Rich [1] of Johns Hopkins University felt justified in stating that we are unable to speak with certainty concerning the exact rôle of the liver in normal bile pigment formation except so far as we are sure that the epithelial liver cell is not necessary for the formation of the pigment. The latter was thus made independent of the activity of the hepatic tissue. Rich remarked that previous to 1903, whenever it was suggested that perhaps the liver cells merely excrete the bile pigment which is made somewhere outside them and carried to them by the circulation, it seemed rather easy to refute the suggestion by the statement that there is no bile pigment in the blood stream normally—not even in the portal vein. The important demonstration by Gilbert, Herscher and Posternak [2] that normal human serum does contain bile pigment removed this well worn prop from the theory that the pigment is made within the liver cells. In 1913, van den Bergh and Snapper [3] applied Ehrlich's diazoreaction to the quantitative study of bilirubin in the body fluids. This work, Rich adds, really marked an epoch in the study of bile pigment under physiologic and pathologic conditions, for it placed in the hands of every one interested in the matter a simple and extremely sensitive test for bilirubin in albuminous fluids. With the van den Bergh test, the observation of Gilbert and his co-workers has been confirmed repeatedly, and it is now a perfectly familiar fact that bilirubin is normally present in human plasma in amounts that vary within fairly definite limits.

Mann and his collaborators at the Mayo Foundation have greatly promoted these convictions by their beautiful demonstrations that bilirubin is formed in the body even after the surgical removal of all the intra-abdominal organs, thus conclusively demonstrating that there is an extra-abdominal source of bilirubin and that neither the liver nor any other of the intra-abdominal organs is necessary for its formation. In rapid succession they [4] ascertained some of the localities involved. A comparison of the bilirubin content, as measured by the spectrophotometer, was made of the arterial and venous blood of most of the large organs of the body and other isolated vascular areas. In most of the vascular areas, the bilirubin content of specimens of blood from the two systems was the same, but the bilirubin content of the venous blood was greater than that of the arterial blood of spleen and bone marrow, which proves that bilirubin is formed in these organs at least. The latest reports from the laboratories at Rochester, Minn., give added support to the belief that the blood pigment hemoglobin can act as a precursor of bilirubin in the sites of formation just referred to.[5] The appearance of hematin, which the Mayo Foundation investigators discovered in connection with the active formation of bilirubin, would indicate that the process of disintegration of hemoglobin into hematin and globin occurs more rapidly than the formation of bilirubin from hematin. Thus, the presence of hematin in the blood in disease might easily be interpreted as evidence of increased destruction of hemoglobin. This interpretation, we are reminded, would apparently be of considerable importance in the study of hemolytic icterus and also of value in differentiating the various types of anemia. A summary of our knowledge thus should indicate that: the liver is not the principal seat of formation of the bile pigments; bilirubin is formed in the spleen and marrow; bilirubin is formed from hemoglobin; hematin appears as an intermediate product in the formation of bilirubin from hemoglobin.

RESPIRATORY CHANGES IN AIRPLANE FLIGHTS

The modern world sometimes calls for the adjustment of persons to environmental conditions that represent extremes in contrast with usual circumstances of everyday life. Man is penetrating the tropical jungles and likewise being transported literally to the uttermost ends of the earth, not only in the arctic but also in the antarctic regions. He is obliged to encounter heat and cold in their severest manifestations; nor is this all. Rising above the level of the sea anywhere up to the height of seven miles, already attained, he is confronted with a gradually attenuated atmosphere

1. Rich, A. R.: The Formation of Bile Pigment, Physiol. Rev. **5**: 182 (April) 1925.
2. Gilbert, Herscher and Posternak: Sur la réaction de Gmelin dans les milieux albumineux, Compt. rend. Soc. de biol., 1903, p. 530.
3. Van den Bergh and Snapper: Die Farbstoffe des Blutserums, Deutsches Arch. f. klin. Med. **110**: 540, 1913.
4. Mann, F. C.; Sheard, C.; Bollman, J. L., and Baldes, E. J.: The Site of the Formation of Bilirubin, Am. J. Physiol. **74**: 497 (Nov.) 1925.
5. Mann, F. C.; Sheard, C.; Bollman, J. L., and Baldes, E. J.: The Formation of Bile Pigment from Hemoglobin, Am. J. Physiol. **76**: 306 (April) 1926.

and a consequent lowered partial pressure of oxygen. It has long been known that high altitude is provocative of disagreeable symptoms that may become aggravated into severe distress. The conquest of the higher air has necessitated the acquisition of complete understanding of the physiologic effects of altitude. There was a time not long since when these were catalogued under the designation of "alpine physiology" in recognition of the circumstance that the study of the subject had largely been confined to investigations in mountaineering, notably in the high Alps, where some of the classic researches were conducted for many years. Today, with the advent of the airplane and the dirigible, a science of aviation physiology is in process of development.

The fundamental thesis that has been stressed places emphasis on anoxemia, due to a fall in the oxygen tension in the lungs, as the chief provocative factor in the distress that may arise at great heights, whether on mountain tops or in airships of one sort or another. It is not always possible or convenient to establish laboratories in such locations; consequently, physiologists have attempted to imitate the expected atmospheric conditions of altitude by the use of chambers in which the atmospheric pressure can be reduced to any desired magnitude. Cold and wind can thus be eliminated in the consideration of the fall in oxygen tension. Similar results have been attempted in closed chambers where rebreathing the contained air also brings about reduction in the oxygen supply. Both methods have been extensively applied in the examination of candidates for the aviation service.[1]

It has been clearly established that high altitudes or low barometric pressure when first encountered may interfere with the normal workings of the human machine. The consensus developed from such studies is that the physiologic effects noted at high altitudes are due to the lack of oxygen resulting from the lowered partial pressure of oxygen. Schneider and Clarke[2] of the School of Aviation Medicine at Mitchel Field have remarked that occasionally doubt is expressed as to whether the effects of a flight to a high altitude are the same as those produced when these altitude changes are simulated by means of the low pressure chamber or by the rebreathing method of producing anoxemia. Changes in the composition of the alveolar air of the lungs give information regarding the extent of ventilation of the lungs, the supply of oxygen, and chemical changes in the blood. Hence, they have determined the changes in the alveolar carbon dioxide during flights to an altitude of 15,000 feet. The technic of making satisfactory physiologic observations with delicate apparatus during a flight in an airplane is particularly difficult because of the cold and wind.

The ventilation of the lungs was increased in some instances at altitudes of 2,000 and 3,000 feet, but in one case not until 10,000 feet had been passed. The alveolar carbon dioxide tension remained below normal for some time after the flight. A comparison of the respiratory conditions of airplane flights with those of anoxemia produced in other ways shows that the changes are chiefly those of lack of oxygen. In airplane flights, the alveolar oxygen tension is slightly higher than under conditions of simulated altitude. The difference is attributed to the favoring action of wind on pulmonary ventilation. However, the sensations of the persons when at 15,000 feet were not alone those of anoxemia, although there were observed an increase in breathing, especially frequent deep sighs, and occasionally periodic breathing of the Cheyne-Stokes type. One subject developed a headache, another was nauseated and vomited several times, and still another noticed that slight exertion produced dizziness. All found the effects of the cold quite severe; the temperature in the cockpit frequently fell to between 10 and 15 F. The face, neck and hands were most affected; but the legs and feet were also often noticeably cold. These are incidents independent of the barometer; they can in large part be averted by suitable clothing and protective devices. Anoxemia, on the other hand, calls for an artificial supply of oxygen when a man leaves the regions in which it is furnished under adequate conditions.

1. Manual of Medical Research Laboratory, War Department, Air Service, Division of Military Aeronautics, Washington, D. C., 1918.
2. Schneider, E. C., and Clarke, R. W.: Respiratory Changes During an Airplane Flight to High Altitudes, Am. J. Physiol. **76**: 354 (April) 1926.

Current Comment

MUSCLE HEMOGLOBIN

Hemoglobin, oxygen carrying and the blood are so commonly considered in an interrelated way that it is not easy to divorce this respiratory pigment from immediate connection with the circulation. It has been known for many years, however, that the muscles contain a red pigment that is not removed by merely washing out the residual blood from the contractile tissues. Recent investigations by Whipple[1] and his collaborators at the University of Rochester, N. Y., point to the probability that muscle hemoglobin and blood hemoglobin are almost indistinguishable, if indeed they are not chemically identical. Accordingly, it becomes important to ascertain the origin, function and possible interrelations of the muscle pigment. The muscular tissues represent a large fraction of the body mass; from a quantitative standpoint, therefore, the function of any component may be significant even if it is present in comparatively small proportions. Representing total circulating hemoglobin of the dog as 100 Gm., the Rochester group found the total muscle hemoglobin amounting to from 10 to 80 Gm. in

1. Kennedy, R. P., and Whipple, G. H.: The Identity of Muscle Hemoglobin and Blood Hemoglobin, Am. J. Physiol. **76**: 685 (May) 1926. Whipple, G. H.: The Hemoglobin of Striated Muscle, I, Variations Due to Age and Exercise, ibid., p. 693; II, Variations Due to Anemia and Paralysis, ibid., p. 708.

widely different conditions. They regard it as obvious that muscle hemoglobin is of importance whether one studies the end-products of hemoglobin disintegration or the parent substances suitable for construction into mature hemoglobin. Muscle hemoglobin must be considered in any study of body pigment metabolism. The muscles appear to have a great range in their muscle hemoglobin content which appears to depend on exercise and to determine largely the latent muscular power. This is in harmony with the popular assumption that "flabby" muscles are as a rule pale. The heart is much more uniform in its muscle hemoglobin content, just as its work is more steady and uniform than the work of the skeletal muscles. Whipple has found that anemia demands cannot rob the striated muscle of its hemoglobin. The body ranks the necessity for muscle hemoglobin maintenance on a par with the need for blood hemoglobin production, and from the standpoint of survival of the individual Whipple regards that as a fortunate circumstance. It also shows the importance of muscle hemoglobin in body economy and general pigment metabolism. Muscular paralysis is followed by fairly rapid loss of muscle hemoglobin. Evidently exercise is more important than anemia in determining the content of muscle hemoglobin.

VITAMIN B AND "VITALITY"

A word for popular writers on health topics to conjure with is "pep," defined according to the special point of view of the enthusiast who uses it. Basal metabolism is in some respects an index of health. Deviations from the normal may indicate conditions that are disagreeable if not actually disastrous. Readjustment of a disordered basal metabolism is not always easy without drastic measures. A recent writer [1] has remarked that while no satisfactory measure of an animal's vitality can be said to have been discovered, it is becoming increasingly evident that the intensity of the basal metabolism varies directly with an animal's physiologic condition. For example, athletes are known to have a higher basal metabolism than untrained persons, and men a higher basal metabolism than women; debilitating diseases are known to lower the basal metabolism, while convalescence is accompanied by an increased metabolism. During the excessive enthusiasm a few years ago for the then newly discovered vitamins and the exalted hope of great physiologic accomplishment through their administration in a therapeutic or prophylactic way, these food factors—notably the vitamin B of yeast—were often expected to "pep up" the jaded person. Somehow it was assumed that the vitamin must "stimulate" one function or another. The actual investigations have, however, been disappointing in some ways. Secretion has not as yet been discovered to be stimulated or "pepped up" in any way, although efforts have been directed to a study of the possibility, notably by Cowgill [2] at Yale University. Deuel and Weiss [3] of Cornell University Medical College have demonstrated that deprivation of vitamin B does not of itself lower the basal metabolism, nor is the latter altered by large doses of vitamin-bearing products. These results were secured on dogs. Now Mitchell and Carman [1] of the University of Illinois have demonstrated that the ingestion of excessive amounts of vitamin B up to about ten times their estimated requirements does not appreciably modify the basal heat production of rats. Therefore, so far as the basal heat production is a measure of "vitality," it may be concluded that the ingestion of amounts of vitamin B in large excess over the minimum requirements for growth and continued well being does not benefit an animal.

1. Mitchell, H. H., and Carman, G. G.: Effect of Excessive Amounts of Vitamin B on the Basal Metabolism of Rats of Different Ages, Am. J. Physiol. **76**: 385 (April) 1926.

2. Cowgill, G. R., and Mendel, L. B.: Am. J. Physiol. **53**: 131 (Nov.) 1921. Cowgill, G. R.: Vitamin B as a Factor in Nutrition, Nation's Health **5**: 509 (Aug.) 1923.

3. Deuel, H. J., Jr., and Weiss, R.: The Basal Metabolism in Vitamin B Deficiency, Proc. Soc. Exper. Biol. & Med. **21**: 456 (May) 1924.

Medical News

(PHYSICIANS WILL CONFER A FAVOR BY SENDING FOR THIS DEPARTMENT ITEMS OF NEWS OF MORE OR LESS GENERAL INTEREST: SUCH AS RELATE TO SOCIETY ACTIVITIES, NEW HOSPITALS, EDUCATION, PUBLIC HEALTH, ETC.)

ALABAMA

Supreme Court Upholds Birmingham Ordinance.—The Supreme Court of Alabama rendered a decision, June 10, upholding the city commission of Birmingham in abolishing, by ordinance, Nov. 17, 1925, the office of municipal surgeon. The case was appealed from the Jefferson Circuit Court in equity on the ground that it was an attempt to evade the civil service law. Justice Summerville, of the supreme court, said, it is reported, that although an office is properly subject to civil service regulations, so that an employee cannot be removed except for cause and in accordance with regulations, the municipal government may, nevertheless, abolish the office or position and thereby remove the incumbent, provided the ordinance or resolution is adopted in good faith, and provided the office is not created by the municipal charter or by general law.

CALIFORNIA

Chinese Herbalist Fined.—T. How Wing, a Chinese herbalist of Los Angeles, was arrested recently on a charge of violating the medical practice act; he pleaded guilty and was fined $100.

Physician Cited.—A citation has been issued by the state board of medical examiners calling Dr. Jacob L. Owen, Los Angeles, before the board at the July meeting to show cause why his license should not be revoked for an alleged violation of the Harrison Narcotic Law.

Award of Clinical Prize.—The California Medical Association recently awarded its clinical prize of $150 to Dr. Emil Bogen, Los Angeles, for his essay on "Arachnidism, a Study of Spider Poisoning." No prize for original research was awarded. The council decided to continue the prize committees and to offer similar prizes to be awarded at the 1927 meeting.

Present Status of Poliomyelitis.—The state board of health bulletin, June 5, tabulates the number of cases of poliomyelitis in California in the last five years. There was a total of 283 cases reported in 1921, the largest number until 1925, when the total was 802. In the first five months of 1926 there were fifty-eight cases reported, the largest number in the corresponding period in any of the preceding six years, except 1925, when the number was ninety-nine.

Society News.—The Los Angeles County Medical Association devoted the May 6 meeting to the subject of smallpox; Dr. George Parrish discussed "Management of the Recent Epidemic"; Dr. George M. Stevens, "Hospital Care of Smallpox," and Dr. Michael S. Creamer, "Lessons to Be Learned from the Recent Epidemic." —— Dr. George Piness, Los Angeles, addressed the San Diego County Medical Society, June 8, on "Allergic Manifestations, Diagnosis and Treatment."

New Health Officers.—The state board of health notes in its weekly bulletin the following changes in health officers:

Dr. Smith A. Quimby succeeds Dr. George G. Hawkins as health officer of Madera County.
Dr. Robert J. Evans, Jr., succeeds Dr. George McKenzie as city health officer of Concord.
Dr. Gordon L. McLellan has been appointed city health officer of San Leandro.
Dr. Glenn T. Logsdon succeeds Dr. Henry F. Crandall as city health officer of Oceanside.
Dr. Harrison M. Hawkins succeeds Dr. Marcus W. Pascoe as city health officer of Taft.
Dr. Edgar R. Brigham succeeds Dr. C. A. Tillotson as health officer of Dinuba.
Dr. Frederick R. Rhodes succeeds Dr. Foster M. Hull as health officer of Culver City.
Dr. George Rothganger succeeds Dr. Emily Emery as city health officer of Emeryville.
Dr. Francis F. Malone succeeds Dr. Lawrence L. Lindsey as city health officer of Calipatria.
Dr. Fred R. DeLappe, Modesto, succeeds Dr. Benjamin F. Surrhyne as health officer of Stanislaus County.

FLORIDA

Smallpox Embargo Removed.—The health restrictions and shipping embargo placed against Florida ports by the Bahama Islands on account of the recent smallpox situation were removed early in May.

Hospital News.—The citizens of Fort Pierce have voted a bond issue of $250,000 for a municipal hospital, the construction of which, it is expected, will be undertaken this fall.—— Dr. Grover C. Hardie has been appointed medical director of the Fort Pierce Hospital.

Society News.—At the sixth annual meeting of the Florida Railway Surgeon's Association, Gainesville, May 3, Dr. Joseph N. Fogarty, St. Augustine, was elected president; Dr. George C. Tillman, Gainesville vice president, and Dr. Edmund W. Warren, Palatka, secretary-treasurer; the next meeting place will be West Palm Beach.——Dr. Roy O. Cooley has been elected president of the Palm Beach County Medical Society; Dr. Alice R. Miller, vice president, and Dr. Wilbur O. Arnold, secretary-treasurer.

ILLINOIS

Chiropractor Sentenced.—A. B. Croessman, a chiropractor of Rockford, was recently fined $100 and sentenced to one day in jail for practicing without a license, it is reported.

Student Nurses Strike.—Twenty-five student nurses at the Galesburg Cottage Hospital, Galesburg, went on strike, June 17, it is reported, in protest to the dropping of three nurses from the training school who failed to pass the examinations. The nurses were given time to return to their studies and work without penalty; only one returned; the other twenty-four student nurses were expelled by the hospital board. Meanwhile, the patients in the hospital are being cared for by graduate nurses from nearby cities.

Annual Beaumont Award.—The first Annual Beaumont Award will be made in 1927 by a faculty committee of the University of Illinois School of Medicine for the most important clinical or research work contributed during the year in the field designated. The award is available to workers in any institution and is not confined to members of either faculty or student body of the University of Illinois. Manuscripts do not have to be entered specifically for the award or submitted to the faculty committee. The award is to be granted by the committee after considering all investigations published during any year in periodicals in the United States. The object of the donor, Dr. Frank Smithies, was to encourage investigations of the alimentary tract function. The award will be not less than $100.

Chicago

Liquor Licenses Revoked.—Mr. E. C. Yellowley, local prohibition administrator, recently announced the revocation of the alcohol permits of the following, it is reported:

Dr. Charles A. Lapin, 613 South Sacramento Boulevard.
Dr. Alexander B. Raff, 817 Independence Boulevard.
Drs. Nathan N. Fox, 1317 Independence Boulevard, and Nicholas I. Fox, 170 Taylor Street, Oak Park.
Dr. Henry C. Welcker, 2742 North Clark Street.
Dr. Alexander Levin, 2719 Crystal Street.
Dr. Martin A. Schupmann, 2000 North Halsted Street.
Dr. Adolph Kleinwachter, 2309 North Ridgeway Avenue.

Dr. Pelton Appointed Superintendent of St. Luke's.—Dr. Charles H. Pelton, superintendent of the Elyria Memorial Hospital, Elyria, Ohio, has been appointed superintendent of St. Luke's Hospital, Chicago, and will take up his new duties about July 1. Dr. Pelton has been superintendent of the Elyria Memorial Hospital for about four years, and previous to that appointment he was assistant to the late Dr. Arthur B. Ancker, in whose honor the city and county hospital at St. Paul was named the Ancker Memorial Hospital.

Nurses' Training School for University of Chicago.—The Illinois Training School for Nurses, which, for about forty-five years, has served the Cook County Hospital, will be transferred to the University of Chicago. When the Cook County commissioners have completed other arrangements for the nursing of patients in Cook County Hospital, the property and resources of the Illinois training school, involving about $500,000, will be turned over to the university, making possible a school for nurses in connection with the university medical program on the South Side. Not less than $1,000,000 will be required to endow the undertaking, and this fund must come from benefactors who see the significance of the project. The board of directors of the Illinois Training School for Nurses comprise, among many others, Mrs. Harry F. Williams, president; Mrs. Charles T. Mordock, corresponding secretary; Miss Augusta Fenger, Mrs. Bertram Sippy and Mrs. Charles H. Wacker.

Sale of Poisonous Shoe Dyes Prohibited.—The department of health of Chicago has issued an order prohibiting the sale or use in the city of leather dyes containing toxic solvents on and after March 1, 1927, and requiring that all shoe dyes offered for sale or used from June 1, 1926, to March 1, 1927, shall have a "caution label" as follows: "Shoes that have been dyed must be permitted to stand in the open (not wrapped up) for not less than seventy-two hours after dyeing, before being worn, in order to avoid poisonous effects to the wearer. This dye must not be used on canvas, satin or other shoes manufactured from fabrics. Under no circumstances should shoes or edges of the soles of shoes be dyed while on the feet." A notice will be posted in every shoe shop, shoe-shining parlor, and any place where shoes are dyed, and any person failing to comply with the foregoing order will be prosecuted under section 2916 of the municipal code, or the dye materials destroyed, or both. This section is taken as a public health measure, and the health commissioner requests the cooperation of all concerned.

MAINE

State Medical Election.—At the annual meeting of the Maine Medical Association, Poland Springs, June 10-12, Dr. Lester P. Gerrish, Lisbon Falls, was elected president; Dr. Nathaniel M. Marshall, Portland, president-elect; Drs. Thomas S. Dickison, Houlton, and Ward J. Renwick, Auburn, vice presidents, and Dr. Bertram L. Bryant, 265 Hammond Street, Bangor, secretary-treasurer.

MASSACHUSETTS

State Medical Election.—Dr. James S. Stone, Boston, was elected president of the Massachusetts Medical Society at the annual meeting, June 8; Dr. John M. Birnie, Springfield, vice president; Dr. Walter L. Burrage, Brookline, secretary; Dr. Arthur K. Stone, Framingham Center, treasurer, and Dr. William H. Rose, Worcester, orator. The total registration at this meeting was 706, and in addition there were 185 women present. The next meeting will be in Boston, June 9-19, 1927.

Gift to Hospitals.—Eight hospitals and the Boston Museum of Fine Arts will eventually share equally in the residue of the estate of the late Wilmot R. Evans of Newbury, estimated for the purposes of bond at more than $3,500,000. The hospitals are: Massachusetts General Hospital; Boston Lying-In Hospital; Boston Home for Incurables; Anna Jacques Hospital, Newburyport; Everett Cottage Hospital; Everett Home for Aged Persons; Cambridge Hospital, Cambridge, and Children's Hospital of Boston.

State Tuberculosis Program.—To assist in the program of the state department of health to prevent the development of pulmonary tuberculosis in adult life, the Boston Department of Health began in 1925 the physical examination of school children below the grade of high school. Thus far there have been selected for the purposes of the program more than 78,000 children, the selection being based on an apparent deficiency in weight and height. Of this number who have been made subject to special attention, 8,874 have been selected for special physical examination, and of these 6,561 had undergone this examination at the time of this report. On the evidence presented by roentgenograms, 541 children were said to have hilum tuberculosis, either active or latent, or to be suspicious. The entire procedure, thus far in Boston has disclosed only four cases of active pulmonary tuberculosis.

MINNESOTA

Committee to Confer with University Representatives.—In accordance with a resolution adopted by the house of delegates of the Minnesota State Medical Association, a committee has been appointed to confer with the president of the University of Minnesota and other representatives to consider what the policy of the university shall be concerning problems affecting the medical school. The resolution passed was, in part, as follows:

Resolved, That the Minnesota State Medical Association disapproves of the general policy of admitting pay patients to the University Hospital; be it further

Resolved, That a committee of seven, including the president of the association, Dr. Herman M. Johnson, who shall be an active member of this committee, be appointed by the president of the association, and after having fully informed themselves concerning the problems affecting the medical school, arrange a conference between this committee of the association, the president of the University of Minnesota and representatives of the board of regents of the university to consider what the future policy of the university shall be concerning these problems and other problems which may present themselves concerning the medical school and the medical profession; be it further

Resolved, That the Minnesota State Medical Association reasserts its stand previously taken against the socialization of medicine and state medicine; be it further

Resolved, That the members of the Minnesota State Medical Association do hereby express their willingness to cooperate with the board of regents of the State University of Minnesota and others in authority to the end that an abundance of suitable clinical material, secured entirely from the ranks of the worthy poor, may be available for medical instruction, and pledge their support in securing public and private funds for this purpose.

MONTANA

Personal.—Dr. Thomas H. Handbidge, Circle, has tendered his resignation as health officer of McCone County.——Dr. Hiram B. Cloud, Medicine Lake, has been appointed health officer of Sheridan County.——Lieut. Col. James T. Arwine, Helena, medical reserve, was ordered to active duty for training at American Lake, Wash., effective, June 13; similar orders were issued by the War Department for Lieut. Earl C. Hall, Ashton.

NEW JERSEY

State Medical Election.—At the annual meeting of the Medical Society of New Jersey, June 17-19, at Atlantic City, Dr. James S. Green, Elizabeth, was elected president; Drs. Walt P. Conaway, Atlantic City, Ephraim R. Mulford, Burlington, and Andrew F. McBride, Paterson, vice presidents; Dr. John B. Morrison, Newark, recording secretary; Dr. William J. Carrington, Atlantic City, corresponding secretary, and Dr. Elias J. Marsh, Paterson, treasurer. The society adopted resolutions authorizing the establishment of permanent headquarters, and a committee was appointed to perfect the plans; Dr. James Hunter, Jr., Westville, is chairman of the committee.

Society News.—Dr. Hannah M. Stone, clinical director, American Birth Control League, addressed the Asbury Park Medical Society, recently, on "The Technic of Contraception."——Dr. Joseph F. Montague, New York, addressed the Passaic County Medical Society, Paterson, recently, on "Popular Fallacies Concerning Hemorrhoids," illustrated by motion pictures. The society gave a dinner, June 8, in honor of its oldest member, Dr. James M. Stewart, Paterson, at the North Jersey Country Club.——Dr. Henry H. Brinkerhoff retired in May after thirty-two years of service as treasurer of the Hudson County Medical Society, Jersey City; Dr. Brinkerhoff received a standing vote of thanks from the society, was made an active member without payment of dues, and will be the guest of honor at the next annual dinner.——Dr. William S. Bainbridge, New York, recently addressed the quarterly meeting of the Middlesex County Medical Society on "The Present Status of the Cancer Problem."

NEW MEXICO

Rocky Mountain Diarrhea.—The U. S. Public Health Service has assigned, according to the Bureau of Public Health of New Mexico, Surg. J. G. Wilson to make a thorough study of the annual outbreak in the Rocky Mountain region of an acute diarrheal condition that numbers its victims by hundreds. Limitation of funds, it is said, will prevent Dr. Wilson from visiting localities that have a small number of cases. Health officers are requested to keep in touch with physicians and their counties, and when an outbreak is developing to wire the state department of health, which will notify Dr. Wilson. Detailed records should be kept of such cases to assist in the investigation.

NEW YORK

Personal.—Charles W. Dodge, after thirty-one years of service, has retired, at his own request, as bacteriologist in the bureau of health of Rochester.——A testimonial dinner in honor of Dr. Henry L. K. Shaw, chairman, committee on legislation, was given at the University Club, June 15, by the Council of the Medical Society of the State of New York, for his leadership in behalf of the Webb-Loomis bill, amending the medical practice act.

Vaccination Stops Quarantine.—Twelve cases of smallpox reported at Cold Spring caused a quarantine to be established at Camp Smith, where about 1,200 national guard troops are in camp for training, including the One Hundred and Second Medical Regiment, comprising units from New York, Albany, Rochester and Ticonderoga, and the One Hundred and Second Engineers, from New York. The entire personnel of the camp was vaccinated, June 19, following which the quarantine restrictions were removed.

History of Medical Society.—The Seneca County Medical Society is collecting biographic records of all physicians who ever practiced medicine in the county and also records of the county society; these will be compiled in a history of the society by Drs. Lester W. Bellows, Waterloo, and Albert J. Frantz, Seneca Falls. Some biographies already obtained go back as far as 1792, and all of the society records are intact as far back as 1865. The Seneca County Medical Society is 116 years old. Ethical physicians who have not given the data desired are requested to write promptly to Dr. Bellows, as the history is expected to be placed before the society for approval this fall.

New York City

Personal.—Dr. James F. Cooper, of the American Birth Control League, is reported as having made another tour in April and May, addressing state and county medical societies and other organizations in Colorado, New Mexico, Arizona and Florida.——Dr. Smith E. Jelliffe has been made a corresponding member of the Vienna Society of Psychiatry and Neurology.——Dr. Howard Fox has been appointed chairman of the newly organized section on dermatology and syphilology of the Medical Society of the State of New York.——Dr. Morris Levine has been promoted to associate professor of otology, New York Post-Graduate Medical School and Hospital.——The faculty and management of Long Island College Hospital were hosts, June 5, at the Hamilton Club, to Drs. William Browning and Henry H. Morton, professors at that school for forty-four and thirty-one years, respectively.——Dr. Alexis Carrel and Pierre Lecomte du Noüy, D.Sc., of the Rockefeller Institute for Medical Research, sailed for France, June 5.——Drs. and Mesdames Louis L. Seaman, Fred H. Albee and Richard Kovacs entertained members of the Travel Study Club of American Physicians at dinner at the Army and Navy Club, June 11, previous to their sailing the next day on a visit to medical centers in Europe.——Dr. William H. Park received the honorary degree of doctor of science from New York University at the commencement, June 9.——T. B. Kidner has resigned as institutional secretary of the National Tuberculosis Association and has been succeeded by Mr. Jamieson Marshall.——Henry J. Fisher, president of the United Hospital Fund of New York, recently went to England to study the administration of King Edward's Hospital Fund for London, which, it is said, promotes coordination among 118 London hospitals, and makes an annual campaign for funds toward their support.——Dr. Otto Glogau is president of an organization of Americans of German and Austrian descent, which collects funds for Germanic art reproductions in America; a delegation recently went to Harvard University to unveil, at the Germanic Museum of the university, three replicas of masterpieces of medieval sculpture, and gave to the museum a check for the purchase of an additional gift.——Dr. Lawson G. Lowrey, now engaged in child guidance work in Cleveland, has been appointed director of the Institute for Child Guidance, which has just been established in this city to carry out a comprehensive program of community mental hygiene.——Dr. Francis C. Wood sailed for Liverpool, June 19, to complete his studies with Prof. W. Blair Bell of the results of treatment of cancer with colloidal lead.

OREGON

Naturopath Indicted.—J. C. Ritter, a naturopath of Portland, was indicted, it is reported, by the March grand jury on a charge of manslaughter, based on a death alleged to have been due to an illegal operation; Ritter is out under $5,000 bail.

Hospital News.—The Lutheran Church of the Columbia Conference has taken over the hospital property in Astoria at Sixteenth and Franklin streets, where a fraternal hospital association started to build.——The Salem Hospital will build a new thirty-bed wing, costing $60,000.

Personal.—Arthur R. Moore, Ph.D., professor of physiology and biochemistry, Rutgers University, Brunswick, N. J., has accepted the position of professor of zoology at the University of Oregon.——Dr. David E. Wiley, Hillsboro, resigned as county health officer, June 1.——Lieut. Col. William C. Smith, medical reserve, was ordered to active duty for training at American Lake, Wash., effective, June 13.

SOUTH CAROLINA

Graduation at Medical School.—At the recent graduating exercises of the Medical College of South Carolina, Charleston, the following changes in the faculty were announced: Dr. William P. Rhett has been appointed assistant in surgery; Drs. George H. Zerbst and Roderick Macdonald, assistants in ophthalmology and otolaryngology; Dr. Sedgwick Simons, instructor in clinical pathology to succeed Dr. Hugh E. Wyman, resigned, and Dr. Thomas H. Martin, appointed lecturer in surgery. The Manning Simons scholarships, established in memory of the late Dr. Manning Simons, who for years was professor of surgery, were awarded to James O'Hear, Jr., of the sophomore class, and Gerald E. McDaniel of the junior class. The degree of doctor of public health was conferred on Dr. James A. Hayne of Columbia. There were thirty-eight graduates in medicine.

WASHINGTON

Hospital News.—Dr. Lawrence H. Meadows has moved to Port Gamble to assume charge of the McCormick Lumber Company hospitals.

Annual Postgraduate Lectures.—The tenth postgraduate course of medical lectures given under the auspices of the University of Washington will be delivered, July 19-23, in Anderson Hall; Dr. George Dock, Pasadena, will give the medical lectures; Dr. William F. Braasch, Mayo Clinic, Rochester, Minn., the urologic lectures, and Dr. F. W. Rankin, of the Mayo Clinic, the surgical lectures; each speaker will lecture daily for five days. In addition, a public health lecture under the auspices of the university will be delivered Wednesday; there will be a banquet Monday evening, and alumni reunions Tuesday evening.

State Medical Meeting.—The annual meeting of the Washington State Medical Association will be at Spokane, June 28-30; the county health officers of the state will also hold their annual meeting at this time. Dr. Hans Lisser, associate professor of medicine, University of California Medical School, will give a lantern slide demonstration on "Pituitary Syndromes," June 29; Dr. Maurice F. Dwyer, Seattle, will discuss "Gastric Lesions," and Dr. John C. Lyman, Walla Walla, "Improvement of Our Poor Surgical Results." The public health league will hold its luncheon and general meeting at noon, Tuesday; there will be a dinner dance in the evening at the Davenport Hotel. Dr. Howard Lilienthal, professor of clinical surgery, Cornell University Medical College, New York, will speak on "Empyema," and Dr. Charles D. Hunter, Tacoma, on "Etiology and Treatment of Nonunion of Fractures," and Dr. Clarence A. Smith, Seattle, on "Application of Physiotherapy." There will be a smoker, Wednesday evening, in addition to other entertainment which will insure an enjoyable visit to Spokane.

LATIN AMERICA

New Chief of Public Health Service.—Dr. Francisco María Fernández, Havana, has just been appointed chief of the public health service in Cuba; he is president of the local medical society and of the Círculo Médico de Cuba, and is director of the *Crónica Médico-Quirúrgica* of Havana. Cuba is one of the few countries in which the chief of the public health service is a member of the cabinet.

First Pan-American Congress on Tuberculosis.—The city of Córdoba, Argentina, is preparing for an important conference on tuberculosis in its medical, social, economic and biologic aspects. It will convene, Oct. 10, 1927. Dr. Juan F. Cafferata, Córdoba, is president of the committee of organization, which includes the national and regional authorities. He urges the formation of subcommittees in cities throughout the Americas. The altitude and climatic conditions of Córdoba have made it a center for tuberculosis sanatoriums.

GENERAL

Discharge of Oil in Navigable Waters.—The American and British delegates to the Conference on Oil Pollution, held in Washington, D. C., to obtain an agreement for total prohibition of the discharge of oil from vessels on the high seas, reached a tentative agreement, June 12, on a system of zoning, under which vessels will be forbidden to discharge oil in navigable waters within a fixed distance from the shore. This resolution was reported to the conference after several sessions, during which there were discussions of various methods proposed for checking pollution of navigable waters by oil-burning and oil-carrying vessels. As tentatively agreed, the zoning resolution provides that the distance off shore shall not be less than 50 miles nor more than 150 miles, and that no zone may be established by a nation without the consent of neighbor nations. Members of the conference feel that one of the most important problems of the conference will be disposed of when the zoning plan is agreed on. The next problem is that of working out plans for enforcement.

Bequests and Donations.—The following bequests and donations have been announced recently:

The Albany Medical College, Albany, N. Y., $25,000; the Albany Associated Charities, $5,000, and the Albany Public Health Nursing Association, $5,000, by the will of Emily Niles Huyck.

The Home for Aged of the Little Sisters of the Poor, New York, $500, and the New York Foundling Asylum, $500, by the will of Jane Nulty.

The Eagleville Sanatorium for Consumptives, Eagleville, Pa., $25,000, and the Federation of Jewish Charities, Philadelphia, $5,000, by the will of Caroline Seidenbach.

The Illinois Children's Home and Aid Society, Duquoin, Ill., $50,000, by the will of the late Dr. Dwight J. Harris, Chicago.

The College of Physicians of Philadelphia, $5,000, by the will of the late Dr. S. Lewis Ziegler. Dr. Ziegler also bequeathed his library to the College of Physicians with the stipulation that it shall go to his son should he decide to become an ophthalmologist.

The New York Skin and Cancer Hospital; the St. Christopher Hospital for Babies; the Brooklyn and Jewish hospitals and the Graham Home for Old Ladies, each $5,000, by the will of William D. Hoxie.

The New York Skin and Cancer Hospital, $1,566, by the will of Edward Gordon.

The New York Post-Graduate Hospital; the Babies Hospital; People's Hospital and St. Christopher's Home for Children, Dobbs Ferry, N. Y., all of New York, each $101,000, by the will of Mrs. Anna Dodge McCullough.

Mount Sinai Hospital, $1,000; the Hebrew Orphan Asylum; the Home for Aged and Infirm and the Montefiore Home, all of New York, each $500, by the will of Caroline Adler.

White Plains Hospital, White Plains, N. Y., $10,000, by the will of Cornelius P. Young.

The Convalescent Home, Andalusia, Pa.; Eagleville Sanatorium, Eagleville, Pa., and the Jewish Hospital, Philadelphia, each $10,000, by the will of Fanny Rice.

The Mount Sinai Hospital, Philadelphia; the Uptown Hebrew Day Nursery and Downtown Day Nursery, each $500, by the will of the late Abram Waxman.

The Evangelical Deaconess Hospital, Brooklyn, N. Y., $5,000, by the will of Anna Heintz.

Brown University, Providence, R. I., and the United Hebrew Charities, New York, each $10,000, by the will of the late Oscar S. Straus, New York.

Mr. and Mrs. Booth Tarkington have donated $5,000 in memory of their daughter, and Mr. Carl Fisher $10,000 to the James Whitcomb Riley Hospital for Children, Indianapolis.

The Stamford Hospital, Stamford, Conn., has been given between $150,000 and $200,000, anonymously, to build a nurses' home.

The Hebrew Orphan Asylum, New York, $2,500; the Mineola Home for Cardiac Children, and the Permanent Blind Relief for Soldiers, each $1,000, by the will of Isaac Brill, New York.

The Manhattan Eye, Ear, Nose and Throat Hospital, New York, and the Hartford Hospital, Hartford, Conn., each $25,000, by the will of Mrs. Alice D. Jackson, New York.

The Home for the Aged, Brooklyn, $1,000, by the will of Mary F. B. Spalding.

The Niles Hospital Association, Niles, Mich., $5,000, by the will of Mrs. Sally Lipp.

The Federation of Jewish Charities, $500, by the will of the late Morris Strousse.

The Lutheran Hospital Association, New York, Lennox Hill Hospital, the Bethlehem Orphan and Half Orphan Asylum, each $1,000, by the will of Anna A. Kimme.

Mount Sinai Hospital, Lennox Hill Hospital and the Hebrew Orphan Asylum, all of New York, each $500, by the will of Jacob Manheimer.

The Good Samaritan Hospital, Lexington, Ky., recently received a gift of $55,000, through H. L. Ott, Crestwood, a member of the board of directors.

FOREIGN

Spain Founds a Council on Pharmacy and Chemistry.—Our Spanish exchanges bring the text of the royal decree organizing the Instituto Técnico de Comprobación for examining vaccines, serums, biologic preparations, proprietary medicines and disinfectants and foods for infants, to determine the truth or falsity of the claims of the manufacturers. The director is to be appointed by the government, but the other positions are to be filled by competitive examination. The institute is to be equipped from the funds obtained by the registering fee already imposed, and a stamp tax on proprietaries. The chief of the public health service, the dean of the faculty of pharmacy and the director of the provincial laboratory at Madrid have been appointed the committee of organization.

Deaths

John Howland ✠ professor of pediatrics in Johns Hopkins University Medical Department, and pediatrician-in-chief of Johns Hopkins Hospital since 1912, died in London, June 20, following a surgical operation. He was born in New York, Feb. 30, 1873, the son of Judge Henry E. Howland and Louise Miller Howland. After receiving his early education in the public schools of New York, he attended the Phillips Exeter Academy. He received the degree of Bachelor of Arts from Yale University in 1894, and the degree of M.D. from the Medical College of New York University in 1897. Dr. Howland then served as house officer in the Presbyterian Hospital of New York from 1897 to 1899, and in the New York Foundling Hospital from 1899 to 1900. He studied abroad in Berlin and Vienna, and on his return to this country became pathologist and attending pediatrician to the Foundling Hospital. At various times Dr. Howland served on the staffs of the Willard Parker Hospital, the Riverside Hospital and St. Vincent's Hospital in New York City, and as instructor and associate in pediatrics in the Columbia University College of Physicians and Surgeons. In 1911, he was selected for the chair of pediatrics in the Washington University School of Medicine of St. Louis. Before undertaking this work, he spent a year in the children's clinics in Germany. In 1912, Dr. Howland received the offer of the position in the Johns Hopkins faculty, which he held at the time of his death.

JOHN HOWLAND, M.D., 1873-1926

Dr. Howland was associated with Dr. L. Emmett Holt of New York for twelve years, assisting him in the publication of the well known textbook, and, following Holt's death, acting as its editor. He had also been one of the editors of the *American Journal of Diseases of Children* since its foundation. In 1909, while acting as instructor in diseases of children in the College of Physicians and Surgeons of Columbia University, Dr. Howland was made a member of the Council on Pharmacy and Chemistry of the American Medical Association. Throughout his service on the Council, Dr. Howland was active, progressive and always without fear of consequences when plain speaking was in the interest of the advance of medical science. As a member of the Council's Committee on Therapeutics, and in accordance with the work to which he devoted his life, he was chiefly concerned in advising the Council in regard to the acceptance of medicines and medical foods used in the treatment of children. In addition, Dr. Howland took an active interest in establishing the value of biologic products. He was one of the Council's committee which prepared the series of articles, "Bacterial Vaccine Therapy," which appeared in THE JOURNAL in 1913, and which first definitely criticized the haphazard use of biologic products, particularly the "mixed" vaccines, which were gaining much vogue at that time and were threatening the scientific status of biologic therapy.

Dr. Howland has been recognized as a pioneer in American work on the fundamental requirements of infant nutrition. His research included studies on the metabolism of children, and important investigations on acidosis and on the calcium content of the blood in rickets and in tetany. He was recognized everywhere as a progressive and unselfish leader in the practice of pediatrics.

Carlos F. MacDonald ✠ New York; Bellevue Hospital Medical College, New York, 1869; professor of mental diseases at his alma mater, 1888-1897, professor of mental diseases and medical jurisprudence, University and Bellevue Hospital Medical College, 1897-1906, and since 1906 emeritus professor; lecturer on insanity, Albany Medical College, 1892-1894; medical superintendent, Kings County Lunatic Asylum, 1873-1875; manager and consulting physician, New York State Inebriate Asylum, 1877-1879; medical superintendent of the Binghamton Asylum for Insane, 1879-1880, and of the State Asylum for the Insane since 1881; on the staffs of the Manhattan State Hospital and the Hackensack City (N. J.) Hospital; president of the New York State Commission in Lunacy, 1889-1896; member of the New York Psychiatrical Society and the American Psychiatric Association (president, 1913-1914); Civil War veteran; aged 80; died, May 29, at his home in Central Valley.

Russell Daniel Carman ✠ for many years a leading roentgenologist, died of cancer of the stomach at Rochester, Minn., June 18, after a long illness. He was born in Iroquois, Ont., March 17, 1875. The degree of M.D. was conferred on him by the Marion-Sims College of Medicine, St. Louis, in 1901. After graduate study at the Johns Hopkins Medical School and Harvard, he took up the practice of medicine in St. Louis, specializing in roentgenology. He was assistant in surgery on the faculty of his alma mater from 1902 to 1907, assistant in roentgenology from 1907 to 1909, and assistant professor of roentgenology from 1909 to 1910. He became lecturer in roentgenology in the Washington University in 1910, holding this position until 1913, at which time he went to the Mayo Clinic as head of its section on roentgenology, holding that position until his death. He was also professor of roentgenology in the Graduate School of the University of Minnesota.

The scientific contributions of Dr. Carman were recognized by his election to the presidency of the American College of Roentgenology and of the Radiological Society of North America. He was also a member of the International Congress on Radiology and of similar special organizations in several foreign countries. In addition to a book entitled "The Roentgen Diagnosis of Diseases of the Alimentary Canal," Dr. Carman contributed numerous observations to the literature on this subject, especially dealing with diagnosis of lesions of the gastro-intestinal tract. As a pioneer in the establishment of this specialty, he was generally recognized as a conservative and sincere leader.

Herbert T. Thornburgh, Cincinnati; Cleveland College of Physicians and Surgeons, Medical Department Ohio Wesleyan University, Cleveland, 1898; member of the American Psychiatric Association; on the staff of the Longview Hospital, Cincinnati, and formerly on the staff of the Eastern State Hospital, Lexington, Ky.; aged 54; died, May 23, of injuries received in a fall while attempting to adjust an awning.

Charles Bates Dunlap, New York; Medical School of Harvard University, Boston, 1894; member of the New York Neurological Society, and the American Psychiatric Society; professor and formerly lecturer of neuropathology at the University and Bellevue Hospital Medical College; chief associate in neuropathology, New York State Psychiatric Institute; aged 62; died, June 6, at his home in Scarsdale.

Arthur J. Hill ✠ Canton, Ohio; Western Reserve University School of Medicine, Cleveland, 1893; member of the American Academy of Ophthalmology and Oto-Laryngology; on the staff of the Mercy Hospital; aged 54; died, May 12, of pernicious anemia.

Paul Bromley Godsman, Burlington, Colo.; Medical College of Ohio, Cincinnati, 1884; also a lawyer; formerly county judge, and member of the state legislature; aged 66; died, May 2, at Cheyenne Wells, of skull fracture received in a fall.

Oliver Groves ✠ Rochester, N. Y.; Victoria University Medical Department, Toronto, 1887; formerly on the staff of

the Royal Alexandria Hospital, Fergus, Ont.; aged 64; died, April 30, at Port Hope, Ont., of heart disease.

Alvin Beckman, Bartlett, Texas; Medical Department of the Tulane University of Louisiana, New Orleans, 1895; member of the State Medical Association of Texas; aged 55; was killed, March 28, when struck by a train.

John Nelson Slown, Spencer, Ind. (licensed, Indiana, 1897); member of the Indiana State Medical Association; aged 72; was killed, June 1, when the automobile in which he was driving was struck by a train.

Banks Albert Shepherd, Lexington, Miss.; Vanderbilt University Medical Department, Nashville, 1877; member of the Mississippi State Medical Association; aged 71; died, March 24, of lobar pneumonia.

Robert Sanford Mitchell ✠ Appleton, Wis.; Northwestern University Medical School, Chicago, 1904; member of the Radiological Society of North America; aged 48; died, May 17, of angina pectoris.

William P. Kanar, Solvay, N. Y.; College of Physicians and Surgeons, Baltimore, 1893; member of the Medical Society of the State of New York; aged 60; died, May 10, following a long illness.

Percy Cobun Showalter, Clarksburg, W. Va.; Baltimore Medical College, 1910; member of the West Virginia State Medical Association; aged 38; died, May 2, of chronic nephritis.

John W. Haden, Plevna, Mo.; Missouri Medical College, St. Louis, 1895; member of the Missouri State Medical Association; aged 55; died, May 10, of pneumonia and heart disease.

John Benjamin Thomas, Wellington, Ohio; University of Wooster Medical Department, Cleveland, 1880; aged 69; died recently, of injuries received when struck by an automobile.

Thomas S. Greer ✠ Edgerton, Kan.; University Medical College of Kansas City, 1897; aged 64; died, April 2, at the Christian Hospital, Kansas City, Mo., of duodenal ulcer.

Frederick De Haven, Louisville, Ky.; Southwestern Homeopathic Medical College and Hospital, Louisville, 1900; aged 61; died, May 2, of cerebral hemorrhage.

David F. Eakin, Spokane, Wash.; Cincinnati College of Medicine and Surgery, 1858; aged 85; died, April 16, at La Grande, Ore., of cerebral hemorrhage.

J. T. Slover, Sulphur, Okla.; Dallas Medical College, 1904; member of the Oklahoma State Medical Association; died, March 1, of carcinoma of the liver.

William H. Groves, Dixie, Ont., Canada; Victoria University Medical Department, Toronto, 1889; aged 61; died, April 27, of cerebral hemorrhage.

Charles T. Burnett, Newport, Tenn.; University of Louisville School of Medicine, 1892; aged 71; died, March 23, at Cartersville, Ga., of pneumonia.

John Henry Sullivan, Mount Clemens, Mich.; Baltimore Medical College, 1898; aged 61; died, February 28, of arthritis and carcinoma of the stomach.

Ephriam Ellsworth Gray, Bicknell, Ind.; Marion-Sims College of Medicine, St. Louis, 1892; aged 65; died, February 19, of carcinoma of the liver.

Frederick Rorbach, Johnsonburg, N. J.; Bellevue Hospital Medical College, New York, 1867; aged 80; died, April 26, of senility.

Edward B. Fetherston, Chicago; College of Physicians and Surgeons, Chicago, 1893; aged 64; died recently, of heart disease.

John M. Cullen, Chicago; College of Physicians and Surgeons, Chicago, 1897; died, May 27, of chronic nephritis.

J. W. Davis, Rineyville, Ky.; Louisville Medical College, 1889; aged 87; died, April 2, of pneumonia.

Marriages

FRANKLIN AUGUST WEIGAND to Miss Marie Louise Haussmann, both of Philadelphia, May 26.

HAROLD C. HARPFER to Miss Esther Florence Evans, both of Wheeling, W. Va., June 10.

MOSES PAULSON, Baltimore, to Miss Helen Golden of Elkins, W. Va., June 10.

LAWSON WILKINS to Miss Lucille Mahool, both of Baltimore, June 9.

Foreign Letters

LONDON

(From Our Regular Correspondent)

June 12, 1926.

Fatal Hot Bath

An inquest was held at the Marylebone coroner's court on a woman, aged 46, who was found dead in a bath. She was in the habit of taking very hot baths, and several years ago she fainted in one but recovered just in time to get out. Dr. R. M. Bronte, government pathologist, who made a necropsy, stated that there was marked anemia of the brain. The condition of the lungs was not such as one would have expected in a case of drowning, and showed that on going under the water she was not breathing. The heart was small, only 7½ ounces (200 Gm.) instead of the normal 10½ ounces (285 Gm.) but was quite healthy. He attributed death to coma due to cerebral anemia. The anemic condition of the brain might have been due either to the taking of a heavy meal before the bath or to the heat of the water. The coroner asked: "It is a dangerous thing to boil yourself like that, is it not?" Dr. Bronte replied: "Yes, particularly after meals. The hot bath had the effect of drawing the blood away from the brain." Dr. N. S. Gilchrist said that he attended the deceased regularly and saw her last on the day before death for the unsatisfactory state of her health since an operation for appendicitis last November. She seemed to have no energy. He arrived at the house Sunday morning about 9 o'clock, just before the police, and he found the bathroom door locked. With the assistance of the police he helped to burst open the door. In the bathroom they found her lying in the bath, with the water sufficiently high to cover her nose and mouth completely. The electric light was still burning, and the water was not quite cold. He formed the opinion that she had entered the bath about 10 or 11 o'clock the night before, and had been dead from eight to ten hours. The coroner said that this was a case in which the cause of death was purely natural. He could not exclude from his verdict, however, the fact that death was brought on by the hot bath. The verdict, therefore, would be "accidental death."

Barbituric Derivatives Declared Dangerous Drugs

A conference of representatives of the home office, the ministry of health, the pharmacists, and the British Medical Association has been held to discuss the measures necessary to obviate the dangers to the public from the unrestricted sale of barbital (veronal) and other derivatives of barbituric acid. The home office experts produced evidence of many fatalities, particularly from barbital, sometimes suicidal, but more frequently from an accidental overdose for sleeplessness. London experience showed that in this respect barbital was the most dangerous drug in the pharmacopeia. The representatives of the British Medical Association agreed that it was desirable to prohibit the retail sale of these drugs to unauthorized persons except on a medical prescription, but the pharmacists' representatives were opposed to this unless physicians were at the same time forbidden to supply the drugs, even to their own patients, and were required to order them by prescription, except in emergency or in districts where no pharmacies existed. To this the British Medical Association representatives took exception as an interference, on a side issue, with the right of dispensing physicians, especially as there was no evidence of any untoward effects arising from the use of the drugs supplied in this way. The home secretary has taken steps to make regulations under the Dangerous Drugs Act to include among the drugs specified

"diethylbarbituric acid and other alkyl, aryl or metallic derivatives of barbituric acid, whether described as veronal, proponal, medinal, dial, or by any other trade name, mark, or designation, and any preparation, admixture or other substance containing any of them." The effect will be to make it unlawful to supply by retail any of these drugs except (1) to a physician (2) for use in hospitals or similar institutions, (3) to persons authorized by the secretary of state, (4) in accordance with a prescription given by a physician. Prescriptions for the drugs must be dated and signed by the physician and bear his address, and they must specify the name and address of the patient and the total amount of the drug to be supplied. Where physicians dispense their own medicines and make an entry in their day book with particulars of the drug and the name and address of the patient and the date of supply, no further record is required. The drugs may not be supplied more than once on the same prescription; provided that, if the prescription so directs, the drugs may be supplied on more than one but not exceeding three occasions, as directed in the prescription, at intervals to be specified.

Injury from a Hair Dye

Another case in which injury from a hair dye was the subject of legal action has occurred. A woman used the preparation known as "Inecto" (of which the composition was not declared but of which the active ingredient appears to be a paraphenylendiamine or similar substance). The dye caused sores on the head, a spreading rash, swelling, affection of the heart and nerves, and permanent disfiguration. It was admitted by the proprietors that the hair dye had untoward effects in persons whose skin was especially susceptible. It was argued, however, that the dye was accompanied by instructions which stated that a test was necessary before using it; that the plaintiff, though she had read the instructions, ignored the test, and that therefore she was negligent in applying the dye and was alone responsible. The jury awarded her $2,500 plus a further sum agreed on as special damage.

Foot-and-Mouth Disease in Animals in Great Britain Introduced from the Continent

Outbreaks of foot-and-mouth disease in domestic animals have been giving much trouble in recent years. Last month the number of outbreaks was eighteen; in April, ten, and in March, nineteen. In the last ten days Scotland, which had previously been free, became the center of an outbreak, and in connection with this the important discovery was made that it originated in foreign pigs brought for curing to British bacon factories. There have been seven outbreaks in the vicinity of a bacon factory at Carluke, and they were all traced to virulently infected carcasses brought in from Hofland and Belgium through Rotterdam. The virus is supposed to have been conveyed by human agency or by sewage. There has been another case of foreign infection through Carlisle, and a shipload including infected carcasses has arrived at Leith. It has been long suspected that foot-and-mouth disease might be brought to this country by foreign meat, and especially offal, which is obviously an extremely dangerous source of infection. For the first time there is absolutely definite and complete evidence. The government has therefore prohibited the importation of carcasses from the continent. The only exceptions from this prohibition are: (*a*) fully cured bacon and ham, lard or rendered fat, cooked or preserved meats or meat essences, and (*b*) hides and skins that have been dried, dry-salted or wet-salted. Wet-salted hides or skins must be accompanied by a certificate to the effect that they have been wet-salted for a period of fourteen days.

ITALY

(From Our Regular Correspondent)

May 10, 1926.

International Congress of Surgery

More than 500 surgeons attended the seventh international congress of surgery, which recently convened at Rome.

THE OPENING SESSION

The opening session of the congress was held, April 7, under the chairmanship of Premier Mussolini. After a short address of welcome by the governor of the city, Mussolini reviewed rapidly the history of surgery. It was at the close of the first session that he was wounded in the nose by a shot fired by Miss Gibson. The shot was deflected by Professor Giordano, who seized the hand of the assailant. The bullet, after piercing Mussolini's nose, struck the back of the hand of Professor Alessandri, director of the surgical clinic of Rome, producing a slight contusion.

THE WORK OF THE CONGRESS

The first scientific assembly was held, the afternoon of the same day. The main paper on the first topic, "Radium Treatment of Cancer of the Uterus," was presented by Professor Regaud of Paris. Our statistics, he said, are based on treatment given in 1919 and 1920, since the results must take into account a five-year period of observation. These results show from 15 to 20 per cent of recoveries in all cases without regard to the stage of the disease, or from 40 to 60 per cent recoveries in cases in the primary stage. During the last five years, however, with improved technic, the percentage of recoveries appears to be increasing. Professor Pestalozza of Rome stated that, whenever the tumor can be extirpated, he advised a radical operation, preceded and followed by treatment with radium and roentgen rays. Beuttner is convinced that actinotherapy will continue to increase in importance. Recasens of Madrid explained the therapeutic action of different rays. He emphasized the problem of radium dosage.

The second topic, "The Therapy of Cerebral Tumors," was discussed the afternoon of April 8, the conventionists having spent the morning in clinics and hospitals. Professor Adson of Rochester, Minn., spoke on trigeminal neuralgia, comparing the results of alcohol injections, peripheral nerve excision and radical operation. In addition to his personal statistics on around 300 operations, he referred to several hundred further cases radically treated at the Mayo Clinic. Professor Lozano of Saragossa expressed the conviction that, in spite of the high mortality, extirpation remains the preferred method in the treatment of cerebral tumors. He gave the following statistical figures: an operative mortality of 40 per cent in tumors of the anterior cerebral fossa; 55 per cent in tumors of the posterior fossa; remote cases in which a definite cure resulted amounted to 20 per cent.

The following day (April 9), the third topic was taken up: "Remote Results in the Treatment of Jacksonian Epilepsy." The single paper on the subject was presented by Prof. M. R. Leriche of Strasbourg, who, from his experience with about thirty cases, concluded that jacksonian epilepsy is always associated with a cicatrix caused by a cerebral contusion. According to Leriche, the only true cure consists in excision of the fibroneurogliar cicatrix, which, however, might be influenced by radiotherapy. The speaker emphasized also the rôle of cerebrospinal fluid pressure in the convulsions of jacksonian patients. In the discussion Professor Alessandri of Rome emphasized the need that in operation interventions the normal anatomic planes be reconstructed.

The next congress, to be held in 1929, will convene in Warsaw. Prof. H. Hartmann of Paris was chosen president. A resolution was passed accepting German surgeons as members of the International Surgical Society as soon as

Germany shall have become a member of the League of Nations.

April 10, the last two topics on the program were discussed. The morning was devoted to "Surgery of the Spleen." Papers were presented by Patel of Lyons, N. Leotta of Bari, Papayoannon of Ghesireh, Henschen of St. Gallen, and Cortes Llado of Seville. On the afternoon of this day, the fifth topic was discussed: "Abscesses of the Liver." The first speaker, Prof. M. L. Dominici of Sassari, after dividing the abscesses of the liver into pyogenic and amebic, spoke of the differential diagnosis and of the various forms of treatment. Prof. Paulos Petridis of Alexandria, Egypt, referred to his 538 cases of hepatic abscesses treated in the Greek hospital of Alexandria from 1896 to 1925. He stated that in recent years the number of such morbid types had notably decreased, owing to the use of emetine. In the discussion, Giordano referred to his 140 cases in which puncture of the viscera gave no practical results. Matthiasson of Akureyri referred to the frequency of echinococcus cysts in Iceland.

Statistical Data on Industrial Accidents

During the first eight months of the forty-second year of its existence, the Cassa nazionale di assicurazione has issued 66,864 new industrial accident insurance policies, whereby 824,051 workmen were insured. It has received 123,634 accident claims and has expended 49,039,000 liras in the adjudication of 109,205 cases, 400 of which were death claims and 6,127 were for permanent disability. In the compulsory insurance of agricultural laborers, the *Cassa* has received 34,705 accident claims and has distributed 11,571,000 liras in the adjustment of 26,870 cases, 526 of which were death claims and 2,779 were for permanent disability.

Morbidity and Mortality Among Nurses

Among the regular nursing personnel of the Ospedale maggiore in Milan, during the period 1910-1920, the average annual morbidity was 1.32 per cent among the male nurses and 1.03 per cent among the female nurses, excluding the sisters of charity. The increase in the number of days absence from duty has been considerable and is progressive. A ruling adopted in 1919, to the effect that long absence from work because of tuberculosis would not result in dismissal, has been a major cause of the increase.

Statistics on Psychopaths

According to a census taken in October, 1925, the number of persons confined in institutions for mental disease in all Italy is 59,393, which is 1.5 per thousand of population. This shows an increase of 5,082 patients since the previous census, taken in 1914.

Course in Industrial Hygiene

Under the auspices of the Associazione degli industriali italiani and with the collaboration of the minister of political economy, a course of lectures, to be followed by practical drill, on "Industrial Hygiene and the Prevention of Accidents" will soon be held. This course, which is the first of the kind to be held in Italy, will take up the prevention of industrial accidents, and will be especially for inspectors of industry and labor, though any workmen may take the course.

Coordination of the Antituberculosis Crusade in Latium

According to the plans of the governor of Rome, a general house sanitation campaign will be launched in the city and will be aimed at the homes of the tuberculous in particular; a work colony will be established for tuberculous persons. In addition, there will be coordination of the home visiting service; provision will be made for the children of tuberculous mothers and especially for infants; the public health service will be improved, including the establishment of numerous public baths.

BERLIN

(From Our Regular Correspondent)

May 15, 1926.

Meeting of the German Roentgenologic Society

The meeting of the Deutsche Röntgen-Gesellschaft was held in Berlin, April 11-13, the first main topic being "Is Postoperative Irradiation of Cancer of the Breast Justified?" Jüngling of Tübingen suggested that four stages be distinguished: (1) tumor confined to the mammary gland; (2) tumor no longer freely movable toward the skin and the pectoralis muscle; (3) axillary glands all involved, and (4) intraclavicular glands involved. Results of postoperative irradiation therapy, not based on such a classification, have not been easy to evaluate. Statistics on series of cases less than fifty should be disregarded. In the Kiel Clinic, postoperative irradiation of 221 cases has given improved results, whereas in Tübingen, with a series of 447 cases, it has caused no improvement but rather poor results. Rostock and Hamburg report an improvement in cases extending over three years but no improvement (or poor results) in cases extending over five years; prophylactic postoperative irradiation only delayed the recurrences. Heavy doses seem without value for postoperative irradiation. The technic recommended by H. Meyer of Bremen, which consists of fractioned moderate doses, has proved most effective. Ten surgical clinics do and ten do not apply postoperative irradiation. Five clinics use the method only in advanced stages or at the request of the patient. In any event, cancer of the breast should be operated on as radically as possible. Reliance on postoperative irradiation to eliminate remnants of cancer tissue is not well founded. Reported results in stage 1 justify any one in refusing prophylactic postoperative irradiation. Holfelder of Frankfort-on-the-Main pointed out that the effects of after-irradiation were poorer, the heavier the doses administered. That is quite intelligible because, on the one hand, the latent cancer cell (in contradistinction to the fully active cell) cannot be definitely injured by any dose; and, on the other hand, the possibility of an impairment of the defense forces of the organism must be taken into account. A safe norm is half an erythema dose at intervals of from four to six weeks from eight to ten times in succession. Holfelder does, however, think postoperative irradiation is desirable in especially malignant cancers.

The second topic, "The Roentgenology of the Gallbladder," was treated by O. Strauss of Berlin and Pribram of Berlin. The whole situation has been changed since the Graham method has been introduced. Tetraiodophenolphthalein has proved the best agent, at least as far as intravenous application is concerned. Peroral, duodenal, jejunal and rectal or intravenous applications may be employed. The intravenous infusion has been found superior to all others. The dangers associated with the Graham method have been greatly exaggerated. The deaths so often referred to were the result of an entirely different preparation. The procedure can be regarded as harmless, and there is no objection to ambulant application. It has become routine practice to evacuate the gallbladder by the use of pituitary preparations. Likewise, atropine before the infusion has proved valuable. In intravenous injection, one must be willing to sacrifice time and to infuse slowly, drop by drop, the required agent, dissolved in 40 cc. of distilled water. That requires about fifteen minutes. Pribram announced that he is engaged in the elaboration of a new agent which in its application promises to be simple and which will give good results.

Hänisch of Hamburg, in spite of his success in diagnosis without the Graham procedure, admitted that the Graham procedure is supplanting the older methods more and more.

Schöndube of Frankfort-on-the-Main was able to demonstrate stones in four instances by the Graham method, whereas, with the ordinary method for calculi, their presence had not become known. However, in three other cases the stones could be seen by the ordinary technic, whereas the bladder was not brought into view by the Graham method. Schöndube assumes that a marked secretion of calcium carbonate occurs only when the bladder is closed. Whereas other authors recommend that the roentgenogram be made sixteen hours after the infusion of tetraiodophenolphthalein, Schöndube regards that time as too long. He found that the filling began after the lapse of from three to five hours, and that the optimum was reached in eight hours. To be sure, the observations of the authors and Schöndube's experiences are not comparable without adjustment, since Schöndube does not employ atropine, which paralyzes the motility of the gallbladder and counteracts the effect of the pituitary preparations. In ten cases in which the gallbladders after from five to eight hours were in a good condition to be photographed, Schöndube found no shadows after twelve hours. Five of the patients were pronounced asthenics with cholecystoptosis and presented an unusually marked motility of the gallbladder. Schöndube is an advocate of the intravenous method. He admits, however, that he observed thrombi in 8 per cent of the cases. It is possible that the hemolysis which follows the infusion is the cause of the thrombosis. Rachwalski proposed a new preparation; Gotthart of Munich emphasized the need of caution in patients with exophthalmic goiter. Many were outspoken advocates of the peroral method. The statement that, by means of cholecystography, a correct diagnosis could be reached in from 90 to 100 per cent of the cases was confirmed in the main. The authors held to the view that absence of all roentgen-ray findings occurs in cases of bladder closure.

Holthusen of Hamburg spoke on the "Standardization of Roentgen-Ray Dosage." Glocker of Stuttgart proposed that changes be made in the recommendations of the Deutsche Röntgen-Gesellschaft published in 1913 on the subject of protective measures against roentgen rays. Ernst S. Mayer reported a form of cancer therapy. Fritz reported his observations, made with Posner, to the effect that the glycolysis of tissues, measured by the Warburg method, which requires the exclusion of oxygen, is retarded by the roentgenization of tissue preparations in vitro, whereas irradiation exerted no influence on the respiration of the tissues when that was measurable. The objects examined were the Flexner rat carcinoma, the Jensen rat sarcoma, chicken embryos and the testes of sexually mature rats and mice. At first the investigators did not succeed in confirming in living animals after irradiation of tumors the results obtained after irradiation in vitro. Only when, following the method of Mayer of Vienna, hypertonic glycolysis solution was injected in the animals immediately before the irradiation, did the tumors extirpated immediately after the irradiation, as well as the tumors irradiated in vitro, show any considerable reduction of their glycolysis. Sgalitzer spoke on the roentgen-ray treatment of brain tumors, stating that a glioma, owing to irradiation, had improved to such an extent that the patient could again perform heavy labor. Lorey of Hamburg spoke on bronchography. The ordinary roentgenologic examination had failed in many instances in bronchial diseases, whereas, by filling the bronchi with a contrast medium, excellent results had in most instances been secured. The same thing is true of bronchostenoses and bronchial tumors. The effect of lung collapse in pneumothorax can be studied in excellent fashion by the use of the contrast medium. The method gives also valuable data on the anatomy of the bronchial tree and concerning physiologic questions (peristalsis of the bronchi, etc.).

Correspondence

IODINE IN TUBERCULOSIS

To the Editor:—In discussing "Modern Methods in Diagnosis and Treatment of Pulmonary Tuberculosis" (THE JOURNAL, March 27, p. 973), the reviewer relegates to the commonplace a book that certainly has value, but particularly condemns the use of iodine in the treatment of tuberculosis, at one fell swoop, relegating it to antiquity. I do not believe that any authentic experiments have ever been done to show that iodine breaks down a lung in a tuberculous animal or in man. Except for the report of some guesses on the part of a few men, iodine has not been said to have any harmful effect in this disease. On the other hand, a discussion of the subject by Ragins in the *Bulletin of the Chicago Municipal Tuberculosis Sanitarium* will convince one that iodine may have a place in the treatment of tuberculosis, and that its use certainly has more advocates than antagonists.

E. A. PETERSON, M.D., Denver.

"SENSITIZED BACTERIAL VACCINES"

To the Editor:—In answer to a query regarding sensitized bacterial vaccines (THE JOURNAL, April 24), a statement was made that "sensitized bacterial vaccines are objectionable because they may sensitize the injected person to the proteins in the animal serum with which the bacteria have been treated." Apparently it is assumed that sufficient animal protein must be present in a human dose of the vaccine to cause sensitiveness.

Such vaccines (serobacterins) are sensitized with cattle serum, not horse serum. Also, sensitized bacterial vaccines are not a mixture of serum and vaccine, but the organisms after treatment with the serum are washed with salt solution, recentrifugalized, and finally diluted again in salt solution. The only free serum that could be present is that which clung mechanically to the organisms during the sensitization. The subsequent washing would act as a progressive dilution of this serum, and a calculation of this dilution shows that the greatest amount of serum that could be present in a dose administered to man is 1:1,250,000 cc. This is less than the amount necessary to sensitize a guinea-pig, much less a human being. The only other source of such a suspected sensitization would be the antibodies that are attached to the bacteria. This necessitates the assumption that the antibodies are of a protein nature, and, further, that they are of such a protein nature that would produce sensitiveness. Neither of these suppositions has as yet been proved.

F. M. HUNTOON, M.D., Glenolden, Pa.
Medical Director, H. K. Mulford Company.

TEACHING POSITIONS IN THE PRECLINICAL SCIENCES

To the Editor:—Some years ago the Federation of American Societies for Experimental Biology established a bureau of information, the object of which was to furnish a medium of communication between institutions desiring men to teach in the preclinical sciences and men who are engaged in teaching these sciences, but who desire for some reason or other a change of location. This bureau has been functioning for some years and has been instrumental in placing a considerable number of men in the departments of physiology, biologic chemistry, pharmacology and pathology in the various medical schools in the country.

At present there are available in the files of the director of the bureau the names of a considerable number of men who

are anxious to secure positions as teachers in the branches named above. On the other hand, it is rather striking that very few medical schools are making inquiries regarding such men. This may, of course, be because there are no vacancies. On the other hand, it is more likely that the officials in charge of these schools have overlooked the existence of this bureau.

I will be very glad at any time to furnish any information to administrative officers of the schools, or to aid in any way in placing men who have registered with the bureau.

C. W. EDMUNDS, M.D.,
Director of the Information Bureau.
University of Michigan,
Ann Arbor, Mich.

Queries and Minor Notes

MILK FROM TUBERCULOUS COWS

To the Editor:—I am enclosing a clipping from the *Rural New Yorker* and would be glad to have your opinion respecting the safety of milk from tuberculous cows.

Is it true that human tuberculosis is on the decline? If so, is there, or is there not, a corresponding increase in pneumonia and other respiratory diseases, suggesting that infantile infection with tuberculosis may terminate later in these other forms (through increased susceptibility)?

The statement was recently made in the Cleveland *Plain Dealer* that tuberculosis is now several times more prevalent than formerly among Cleveland school children. In perhaps no other region has there been a more persistent fight by dairymen against the control of bovine tuberculosis than in the region supplying Cleveland with milk. It is true, however, that the population of Cleveland consists very largely of foreigners of the more ignorant classes.

My own observations, during a long life spent on the Ohio farm or in close touch with it, is that bovine tuberculosis is a comparatively new disease in Ohio.

The herd of the Ohio Experiment Station was infected with tuberculosis thirty years ago. We cut out the cancer, at a heavy cost, it is true; but, regarded from the pecuniary standpoint alone, it was a most profitable investment, for by following it with thorough disinfection and the annual use of the tuberculin test, a healthy herd has since been maintained.

CHARLES E. THORNE, Wooster, Ohio.

ANSWER.—The mortality from human tuberculosis is definitely on the decline in most countries. In the United States it is less than half of what it was at the opening of the present century. There has not been an increase in pneumonia or other respiratory disease, except during the influenza epidemic, nor is there any evidence that infantile infection with tuberculosis may terminate in these diseases by increasing susceptibility. The mortality for pneumonia (all forms) in the registered area of the United States was 180.5 per hundred thousand in 1900 and 137.3 in 1920. Certain diseases, notably cancer and chronic diseases of the vascular system and kidneys, have increased, partly, without question, because the lowering of mortality from tuberculosis has permitted a larger proportion of the population to live to the age when these diseases are more common.

There is no proof that tuberculosis is more common than formerly among Cleveland school children. The commissioner of health of Cleveland suggests that this impression has become prevalent because of the increased number of reports of tuberculosis resulting from the Cleveland method, recently adopted, of issuing working permits to children of school age only on the basis of physical examination. These examinations have resulted in the recognition of many cases of mild tuberculosis that would otherwise have been undetected. The mortality from tuberculosis in Cleveland for the age period 5-19 years, which includes the school years, has been as follows for the last five years: 1921, 125; 1922, 84; 1923, 98; 1924, 92, and 1925, 86 (figures given by the commissioner of health). In view of the increased population, these figures indicated a decided decrease in the mortality rate.

No competent observer in recent years has seriously questioned the infectiousness of bovine type tubercle bacilli for man. While only a small amount of adult tuberculosis appears to be of bovine origin, about one quarter of the extrapulmonary tuberculosis of childhood, as shown by several extended investigations, is of bovine origin. Several of the statements in the letters printed in the clipping from the *Rural New Yorker* are correct in fact but wrong in implication. It is true that many cattle giving positive tuberculin reactions may live out their natural length of life in apparent health. Nevertheless, such cattle have been infected with tuberculosis. The severity of infection is ordinarily not determined by the tuberculin test. Although only about 25 per cent of reactors have been found on investigation to eliminate tubercle bacilli with the milk, there is no method known at present of ascertaining which reactors are capable, and which are not of contaminating their milk with tubercle bacilli, and therefore all infected cattle are to be considered potential spreaders of tuberculosis.

Statistics that take into account only the mortality from tuberculosis and ignore the disability are apt to be misleading. It is true, as stated in two of the letters printed in the *Rural New Yorker*, that certain studies have failed to show a direct correspondence between human and bovine tuberculosis in certain localities. In addition to the Swedish studies cited, Boquet (*Rev. d. tuberc.*, December, 1921, p. 485) has made a similar report on certain regions in Italy, and Cummins (*Pubic Health* **35**:251, 1922) has noted that the disease tends to be severe in localities in England where the herds are free from tuberculosis. Cummins thinks that some immunity against the human type infection may be conferred by early mild bovine infection, but states that this is no argument against the eradication of bovine tuberculosis, as infection of this type leads in many instances to serious disease. It has been asserted that almost 25 per cent of the fatal tuberculosis of childhood in England can be attributed to bovine tuberculosis, and this does not take into account the nonfatal tuberculosis of bones, joints and lymph nodes leading to some permanent disability.

COMPLICATIONS OF ORCHITIS

To the Editor:—In September and October, 1925, I attended, during a small epidemic of mumps, two cases with complications of orchitis. The orchitis was definite on both sides in one case. In the other case one side was affected, but the other side was doubtful. Both patients were healthy men aged about 20. Jan. 2, 1926, both had swelling of the mammae. The man with the double orchitis had a big swelling of both breasts, not painful, firm and regular of consistency, no redness, no local glandular swelling in the axilla. In March, the swelling was going down slowly. The breasts were then 2½ inches in diameter. Is this swelling of the breast a well known after effect of double orchitis in mumps? I should like to know some more about it. In November, 1925, the semen contained live spermatozoa, but these could have come from the vesicles. There are cases reported of male persons having secreting breasts.

L. J. TEGROEN, M.D., Pretoria, British South Africa.

ANSWER.—The breasts may become swollen and hard, also painful, in much the same way as the testes and the ovaries may be involved in mumps, and this process may develop in males as well as in females. Mastitis has been observed to develop in the course of mumps even in young boys. This involvement of the breasts in mumps seems to be known well enough, but it does not appear to be frequent and it does not seem to have attracted as much attention as other complications.

INDUSTRIAL DERMATITIS

To the Editor:—We use as a back-sizing for our axminster rugs a mixture made by dissolving in 120 gallons of water 100 pounds of tapioca flour, 60 pounds of British gum and one-half pound of caustic soda, with 1.225 specific gravity. The "British gum" is bought by us and is probably a mixture of various starches and dextrin. Recently, severe cases of rash or eczema have appeared on the hands and arms of five or six of the men who handle the rugs after they have been back-sized. Not all of the men so engaged, however, have contracted this rash. We are wondering whether, from previous similar cases that may have come to your attention, you can advise us as to the probable cause of this rash. That is, have you reason to believe that the malady is traceable to possible impurities in the sizing, particularly in the "British gum"? Could such impurities be determined by a chemical analysis? We are writing to you in the belief that you keep a record of cases of industrial diseases and that you may have on record in your files something similar to this case.

WALTON C. FORSTALL, Amsterdam, N. Y.

ANSWER.—The mixture used for back-sizing the rugs may well be a source of dermatitis. Medical literature seems to show no reference to irritation produced by tapioca flour, but dermatitis developing from wheat flour is generally conceded to occur, and it is entirely probable that the tapioca flour might produce a similar condition. "British gum" is dextrin and may well be the irritating factor, as dermatitis among those handling sugars is not at all uncommon. Skin tests of the susceptible persons may be tried, and in that way the specific irritant might be determined.

Medical Education, Registration and Hospital Service

COMING EXAMINATIONS

ALABAMA: Montgomery, July 13-16. Sec., Dr. S. W. Welch, Montgomery.

ARIZONA: Phoenix, July 6. Sec., Dr. W. O. Sweek, 404 Heard Bldg., Phoenix.

CALIFORNIA: San Francisco, July 12-15. Sec., Dr. Charles B. Pinkham, 906 Forum Bldg., Sacramento.

COLORADO: Denver, July 6. Sec., Dr. David A. Strickler, 612 Empire Bldg., Denver.

CONNECTICUT: Hartford, Reg. Bd., July 13-14. Sec., Dr. Robert L. Rowley, 79 Elm St., Hartford. Homeo. Bd., New Haven, July 13. Sec., Dr. Edwin C. M. Hall, 82 Grand Ave., New Haven.

HAWAII: Honolulu, July 12-15. Sec. Dr. A. L. Davis, 1254 Emma Street, Honolulu.

INDIANA: Indianapolis, July 13-15. Sec., Dr. Wm. T. Gott, 421 State House, Indianapolis.

MAINE: Augusta, July 6-7. Sec., Dr. Adam P. Leighton, 192 State St., Portland.

MASSACHUSETTS: Boston, July 13-15. Sec., Dr. Frank M. Vaughan, Room 144, State House, Boston.

MISSOURI: St. Louis, June 28-July 1. Chief, Licensure, Dr. Ross Hopkins, Jefferson City.

NEW YORK: Albany, Buffalo, New York and Syracuse, June 28-July 1. Chief, Mr. Herbert J. Hamilton, Education Bldg., Albany.

NORTH DAKOTA: Grand Forks, July 6. Sec., Dr. G. M. Williamson, Grand Forks.

OREGON: Portland, July 6-8. Sec., Dr. U. C. Coe, 1208 Stevens Bldg., Portland.

PENNSYLVANIA: Philadelphia and Pittsburgh, July 6-10. Director Education, C. D. Koch, Harrisburg.

RHODE ISLAND: Providence, July 1-2. Sec., Dr. B. U. Richards, 315 State House, Providence.

SOUTH DAKOTA: Custer, July 20. Director, Med. Lic., Dr. H. R. Kenaston, Bonesteel.

UTAH: Salt Lake City, July 6. Dir., Mr. J. T. Hammond, 412 State Capitol Bldg., Salt Lake City.

WASHINGTON: Olympia, July 6. Director, Dept. of Licenses, Mr. Charles R. Maybury, Olympia.

WEST VIRGINIA: Martinsburg, July 6. Sec., Dr. W. T. Henshaw, Charleston.

WISCONSIN: Milwaukee, June 29-July 1. Sec., Dr. Robert E. Flynn, State Bank Bldg., La Crosse.

District of Columbia April Examination

Dr. Edgar P. Copeland, secretary of the Board of Medical Supervisors of District of Columbia, reports the oral and written examination held at Washington, April 13-15, 1926. The examination covered 16 subjects and included 80 questions. An average of 75 per cent was required to pass. Of the 12 candidates examined, 11 passed and 1 failed. Seven candidates were licensed by reciprocity. The following colleges were represented:

PASSED College	Year Grad.	Per Cent
George Washington University Medical School	(1925)	86.4
Howard University School of Medicine	(1925) 75.8, 76.6,	82.5
Loyola University School of Medicine	(1919)	77.8
University of Kansas School of Medicine	(1920)	83.8
Tulane University of Louisiana School of Medicine	(1907)	77.6
John A. Creighton Medical College	(1919)	87.3
University of Pennsylvania School of Medicine	(1908)	84
University of Western Ontario School of Medicine	(1917)	83.9
University of Copenhagen, Denmark	(1921)*	88.1

FAILED College	Year Grad.	Per Cent
Howard University School of Medicine	(1925)	71.1

LICENSED BY RECIPROCITY College	Year Grad.	Reciprocity with
George Washington University Medical School	(1920)	Virginia
Rush Medical College	(1911)	Maryland
University of Maryland School of Medicine	(1921)	Maryland
Medical College of Ohio	(1895)	Colorado
University of Pennsylvania School of Medicine	(1898)	Penna.
University of West Tennessee Coll. of Med. and Surg.	(1917)	Tennessee
Medical College of Virginia	(1922)	Virginia

* Verification of graduation in process.

New Hampshire Reciprocity Meeting

Dr. Charles Duncan, secretary of the New Hampshire Board of Medical Examiners, reports that 9 candidates were licensed by reciprocity at the meeting held at Concord, March 11-12, 1926. The following colleges were represented:

LICENSED BY RECIPROCITY College	Year Grad.	Reciprocity with
Indiana Medical College	(1907)	Indiana
Boston University School of Medicine	(1897)	Mass.
Tufts College Medical School	(1923), (1925, 2)	Mass.
Cornell University Medical College	(1924)	New York
Woman's Medical College of Pennsylvania	(1906)	Penna.
University of Vermont College of Medicine	(1903), (1922)	Vermont

Book Notices

CAESAREAN SECTION. With a Table of 120 Cases. By Herbert R. Spencer, M.D., B.S., F.R.C.P., Consulting Obstetric Physician to University College Hospital. Cloth. Price, $3.75. Pp. 71, with 5 illustrations. New York: William Wood & Co., 1925.

In this interesting book the author reviews his entire experience with cesarean section. Since 1892 he has performed 120 of these operations, the records of which are tabulated and critically analyzed. The number of operations is not greater because at the University College Hospital, where 110 of the operations were performed, premature labor is induced three and a half times as often as cesarean section is done for contracted pelves. In this hospital the incidence of cesarean section is 5.5 per thousand. Indications for the operation were noted as follows: contracted pelvis, ninety-eight, with two deaths; myoma, nine, with one death; pelvic enchondroma, one, which ended fatally; accidental hemorrhage, four; vaginal and uterine scars, three; ovarian tumors, three; ventrifixation, one; cancer of the cervix, one, and placenta praevia, one. Only thirty-five patients were in labor at the time of the operation because the author believes that the best time to operate is before labor has begun. Many operators, however, feel that the most favorable time is after the patient has had some labor pains. All of Spencer's operations were of the classic type, and in all the cases the uterine incision was sutured with phenolized floss silk. In the United States nearly all operators prefer catgut to silk for closure of the uterus. The maternal mortality was 3.3 per cent. The immediate fetal death rate was 4.1 per cent, but the entire fetal mortality was 10 per cent. At present the patients are given chloroform until the baby is delivered, and after that ether. The author feels that chloroform is much less dangerous to the babies than ether. Although Spencer has never performed a cervical cesarean section, he condemns this type of operation. While some of his objections apply to the extraperitoneal cervical operation, they do not hold good for the transperitoneal operation. For example, Spencer mentions that after the cervical operation adhesions are troublesome, and during the operation injury to the bladder and ureter frequently occur. There is also an insinuation concerning rupture of the cervical scar. To date there have been only ten ruptures of the lower uterine segment following transperitoneal cervical cesarean section. The total number of these operations which have been performed all over the world is unknown, but 3,600 have been reported in the literature, and, if we use this number alone as a basis, the incidence of rupture is 0.28 per cent, as compared with 4 per cent for the classic operation, reported by Holland. Adhesions are very uncommon after the transperitoneal operation even in the cases in which more than one operation have been performed. While injuries to the bladder and ureter occur during the extraperitoneal operation, they are practically unknown in the transperitoneal. Spencer is correct when he says that the cervical operation consumes more time. However, the advantages of the new operation outweigh the disadvantage of time, and if the operation is performed under local anesthesia, the time element in most of the cases is not important. Spencer believes that cesarean section need rarely be done for eclampsia, antepartum hemorrhage and advanced age of the patient associated with myoma or malpresentation, and should not be employed in cases of heart disease.

DIAGNOSTISCHE UND THERAPEUTISCHE IRRTÜMER UND DEREN VERHÜTUNG CHIRURGIE. Herausgegeben von Prof. Dr. J. Schwalbe, Geh. San.-Rat in Berlin. Siebentes Heft. Verletzungen und chirurgische Krankheiten der Mund- und Rachenhöhle, des Halses einschl. der Speicheldrüsen, der Speiseröhre, des Kehlkopfes und der Trachea. Von Prof. Dr. Paul Clairmont, Vorstand der chirurgischen Klinik in Zurich. Paper. Price, 8.10 marks. Pp. 188, with 97 illustrations. Leipsic: Georg Thieme, 1926.

This volume, on the injuries and surgical diseases of the mouth, pharynx and neck together with the salivary glands, esophagus, larynx and trachea, forms the seventh section of the division of surgery, and is written by Professor Clairmont of the surgical clinic in Zurich. Many practical points with reference to the proper diagnosis and the avoidance of many

errors, as well as the various complications involving the parts under discussion, are given. Altogether, this small volume presents in a readable and intelligible manner many items of great practical importance to students and surgeons interested in the upper part of the respiratory and digestive tracts.

PHYSIOTHERAPY. Theory and Clinical Application. By Harry Eaton Stewart, M.D., Attending Specialist in Physiotherapy, U. S. Marine Hospitals, N. Y. Cloth. Price, $7.50. Pp. 351, with 66 illustrations. New York: Paul B. Hoeber, Inc., 1925.

This is a brief outline of physical therapeutic methods based largely on the author's experience in the government rehabilitation service. The description of the apparatus is simple, and the suggestions as to the tehcnic of application are easily followed. The author is unfortunately uncritical in his consideration of the available literature, accepting almost any writer on the subject as an authority, and without reference as to whether or not his work may have been carefully controlled. The tone of the book is highly optimistic, and the therapeutic considerations regularly disregard well established methods in order to recommend unestablished physical therapeutic measures. It is perhaps unfortunate that this field of therapeutics advances by the costly trial and error methods of empiricism, rather than by the more careful but somewhat less renumerative methods of scientific laboratory and clinical investigation.

ARTIFICIAL SUNLIGHT AND ITS THERAPEUTIC USES. By Francis Howard Humphris, M.D., F.R.C.P., M.R.C.S., Hon. Consulting X-Ray Physician to the American Hospital in London. Second edition. Cloth. Price, $2.75. Pp. 203, with 15 illustrations. New York: Oxford University Press, 1925.

Current interest and enthusiasm for heliotherapy in the treatment of disease have necessitated the prompt appearance of the second edition of this book. It is a monograph in beautifully printed form and, in general, conservative. Unfortunately, Dr. Humphris, like most other authors who specialize in one method of treatment, is inclined to overemphasize that method to the disadvantage of long established and more certain methods.

HANDBUCH DER SPEZIELLEN PATHOLOGISCHEN ANATOMIE UND HISTOLOGIE. Herausgegeben von F. Henke und O. Lubarsch. Zwölfter Band. Gehörorgan. Bearbeitet von A. Eckert, M. Koch, W. Lange, H. Marx, O. G. Runge, O. Steurer und K. Wittmaack. Paper. Price, 84 marks. Pp. 802, with 640 illustrations. Berlin: Julius Springer, 1926.

This volume, on the ear, forms a section of the large handbook of special pathology, anatomy and histology. The first section deals with the technic of the pathologic and anatomic examination. The next subject, the inflammatory processes of the ear, is dealt with by Wittmaack. The latter has also written the third section, on the development of intracranial and septicopyemic complications, as well as the fourth section, on regressive, degenerative and dystrophic processes in the ear. The next section, on malformation of the ear, is by Marx. Runge has written the eighth section, on the relation between the pathologic findings to the function of the ear. The final, or ninth, chapter deals with foreign bodies and animal parasites in the ear, and is written by Max Koch. Complete bibliographies are appended to each section, and the whole work is an excellent exposition of the subject it presents.

EVERYDAY MEALS FOR INVALIDS. A Collection of Tiny Recipes, Tasty and Nourishing, for Every Day in the Year. By May Tremel. Cloth. Price, $1.25. Pp. 188. New York: Greenberg, Publisher, Inc.

This is essentially a collection of recipes planned to provide enough for one person for one meal and to fill the usual medical wants of nonsolid diet, very light diet, light diet, and convalescent diet. The suggestions should be helpful to those charged with the care of an invalid in the home.

WILLIAM CADOGAN [HIS ESSAY ON GOUT]. By John Ruhräh, M.D., Professor of Diseases of Children, University of Maryland. Cloth. Price, $1.50. Pp. 114, with 1 illustration. New York: Paul B. Hoeber, Inc., 1925.

This is a reprint of an essay originally published in the *Annals of Medical History*. The unusual original article by Cadogan, which attracted wide attention when first printed in 1771, and a poem which circulated about the town at that time supplement Ruhräh's introduction.

HISTORY OF MEDICINE. By Dr. Max Neuburger, Professor of Medical History in the University of Vienna. Translated by Ernest Playfair, M.B., M.R.C.P. In two volumes. Vol. II. Part I. Paper. Price, $2.25. Pp. 135. New York: Oxford University Press, 1925.

The first volume of Neuburger's History of Medicine has been before the medical public for many years, a monumental work which has established a standard that is at once the admiration and the despair of other medical historians. Unfortunately, the second volume has repeatedly been delayed by many uncontrollable conditions, including, of course, the Great War. The publishers now present part one of volume II, including chapters on medieval medicine, Arabic influence on Western medicine, medicine in the later middle ages, and a historical survey of medieval literature. The publisher also announces that the remaining parts of the English edition will appear "as and when the German original is published."

A GENERAL TEXTBOOK OF ENTOMOLOGY. Including the Anatomy, Physiology, Development and Classification of Insects. By A. D. Imms, M.A., D.Sc., Chief Entomologist, Rothamested Experimental Station, Harpenden. Cloth. Price, $12. Pp. 698, with 604 illustrations. New York: E. P. Dutton & Co.

This is a textbook planned distinctly for the specialist rather than for the physician who is interested primarily in insect transmission of disease. The book is well printed and illustrated, and supplied with good bibliographies.

Books Received

Books received are acknowledged in this column, and such acknowledgment must be regarded as a sufficient return for the courtesy of the sender. Selections will be made for more extensive review in the interests of our readers and as space permits.

CLINIQUE MÉDICALE DES ENFANTS: Troubles de la nutrition et de la croissance. Par P. Nobécourt, Professeur de clinique médicale des enfants à la Faculté de médecine de Paris. Paper. Price, 36 francs. Pp. 404, with 113 illustrations. Paris: Masson et Cie, 1926.

Report of French pediatric clinic.

ALLGEMEINE UND SPEZIELLE PATHOLOGIE DER PERSON: Klinische Syzygiologie. Von Prof. Fr. Kraus. Teil. I: Tiefenperson. Paper. Price, 18 marks. Pp. 252. Leipsic: Georg Thieme, 1926.

First part of encyclopedic consideration of what makes the man go.

LA RADIOLOGIE DU MÉDECIN PRACTICIEN: Radiodiagnostic des maladies de l'appareil digestif. Par R. Ledoux-Lebard. Paper. Price, 30 francs. Pp. 288, with illustrations. Paris: Masson et Cie, 1925.

Brief monograph on gastro-intestinal roentgenology.

THOMAS SYDENHAM, CLINICIAN. By David Riesman, M.D., Professor of Clinical Medicine, University of Pennsylvania. Cloth. Price $1.50. Pp. 52, with 1 illustration. New York: Paul B. Hoeber, Inc., 1926.

Attractive contribution to medical history.

PSYCHOTHERAPIE: Ein Lehrbuch für Studierende und Aerzte. Von Dr. Max Isserlin, Professor an der Universität in München. Paper. Price, 9 marks. Pp. 205. Berlin: Julius Springer, 1926.

Brief and rational consideration.

PETIT PRÉCIS ANNUEL 1926 MÉDICAL. Par A. Cantonnet, Ophthalmologiste des hôpitaux de Paris. Paper. Price, 8 francs. Pp. 177. Paris: A. Maloine, 1926.

Abstracts of current literature.

MODERN MEDICINE: Its Theory and Practice in Original Contributions by American and Foreign Authors. Edited by Sir William Osler, Bart., M.D., F.R.S. Third edition, Revised and Reedited by Thomas McCrae, M.D., Professor of Medicine in the Jefferson Medical College, Philadelphia. Assisted by Elmer H. Funk, M.D., Assistant Professor of Medicine, Jefferson Medical College, Philadelphia. Volume III. Diseases of Metabolism —Diseases of the Digestive System. Cloth. Price $9. Pp. 1052, with illustrations. Philadelphia: Lea & Febiger, 1926.

HANDBUCH DER BIOLOGISCHEN ARBEITSMETHODEN. Herausgegeben von Geh. Med.-Rat Prof. Dr. Emil Abderhalden, Direktor des physiologischen Institutes der Universität Halle a. d. Saale. Abt. VI, Methoden der experimentellen Psychologie, Teil A, Heft 5. Psychologische Studien am Geruchssinn. Von Hans Henning. Lieferung 189. Paper. Price, 4.50 marks. Pp. 741-836, with illustrations. Berlin: Urban & Schwarzenberg, 1926.

LEÇONS DE PATHOLOGIE DIGESTIVE. Par M. Loeper, Professeur agrégé à la Faculté de médecine de Paris. Sixth series. Paper. Price, 22 francs. Pp. 272, with 43 illustrations. Paris: Masson et Cie, 1925.

Medicolegal

Basis of Compensation for Injury to Vision

(Alessandro Petrillo Co. v. Marioni (Del.), 131 Atl. R. 164)

The Superior Court of Delaware holds that, a workman having sustained an injury to his left eye which resulted in an 80 per cent loss of vision, in computing an award for his fractional loss of vision, such award should be based on the percentage of the loss of vision without the use of glasses. It might be true that an artificial instrumentality, such as glasses or a corrective lens, might subsequently be used, by virtue of which the loss of vision might be reduced from 80 per cent to 10 per cent during the time such glasses were actually in use; but the loss suffered by the injury would remain the same, which was the compensable basis. The very fact that artificial instrumentalities such as glasses, braces and artificial limbs are necessary to be used is in itself evidence of the permanence of the injury, but the use of the mechanism itself, although it may allow a member to function with entire normality, cannot obliterate the effect of the accident causing the injury. A number of cases were cited from the jurisdictions of New York, Pennsylvania and Michigan as having arrived at different conclusions from the one herein reached. It may be sufficient to suggest that these cases were determined on their particular statutory enactments. Most or all seemed to be founded on statutes based on the theory that compensation was payable only in cases such as the present one when the accident led to loss of earning power. The workmen's compensation act of Delaware makes a permanent injury to an eye compensable regardless of the earning power of the injured employee after the injury, and this court is of the opinion that the action of the industrial board in basing the award in this case on the loss of vision without the use of a corrective lens should be affirmed.

Payments by Employer for Medical Services

(Johnson et al. v. J. P. Taylor Co. (Ky.), 278 S. W. R. 169)

The Court of Appeals of Kentucky says that in this proceeding under the workmen's compensation act the compensation board awarded the claimant compensation for a permanent partial disability and in addition allowed him $100 for medical services. But the Kentucky statute allows only a maximum of $100 for medical services, and the testimony in this case showed that the employer had voluntarily paid for at least some of the medical services rendered to its injured employee—the claimant. The compensation board took no cognizance of those payments, but allowed the full maximum sum of $100, as just stated. The board should have credited that sum with whatever amount the employer had paid, and awarded only the difference. It should therefore correct its award in this particular.

Duty of Employer Knowing Employee to Be an Epileptic

(Monteith v. Manchester Rendering Co. (N. H.), 131 Atl. R. 440)

The Supreme Court of New Hampshire, in overruling exceptions to a charge to the jury in this action in which there was a verdict for the plaintiff, says that the plaintiff was an epileptic, and the defendant excepted to an instruction that its knowledge of the plaintiff's disease was a circumstance in the light of which its conduct in furnishing a place for him to work was to be judged. The defendant's knowledge of the plaintiff's condition entitled him to special protection so far as due care would give it to him, and the instruction was correct in its application to an injury sustained when the plaintiff had an epileptic attack. It might be conceded that the instruction was given too broadly in its general application regardless of the plaintiff's having or not having an attack when hurt, since the defendant owed him no duty of special protection except as related to an attack. In the absence of an attack, the breach of duty to guard against it could not be made a ground of liability. Causal connection between such breach and the injury would be missing. But the exception to the instruction did not present that feature of it for consideration; that is, that the instruction should be limited to the situation of the plaintiff's having an attack when hurt.

Health Laws May Impose Heavy Financial Burdens

(Chicago & N. W. Ry. Co. v. Railroad Commission (Wis.), 205 N. W. R. 932)

The Supreme Court of Wisconsin, in affirming a judgment that affirmed an order of the railroad commission made pursuant to a statute of the state requiring railroad companies operating in the state of Wisconsin to equip their locomotives with cab curtains of a prescribed protective efficiency, says that the court does not think that there is anything in the contention that the law or the order imposes an undue burden on interstate commerce. If the court is correct, it is a law which the state has plenary power to pass in the interest of the public health. As a rule, such laws impose a burden on some one, but it is a burden that must be borne for the public good. A health law is not invalid because compliance with it may carry heavy financial burdens. If the state had power to pass this law, railroad companies cannot refuse compliance therewith because of the burdens imposed. If the validity of the law depends on the reasonableness of the burden laid on interstate commerce, then all circumstances are to be taken into consideration, and perhaps the conclusion reached becomes more a matter of human judgment than fixed rules or principles.

Compensation for Services of Family Physician

(Succession of Bouziga (La.), 106 So. R. 328)

The Supreme Court of Louisiana says that the final accounting of the administration in the succession of the estate of Mrs. Bouziga was opposed by a physician who alleged that he was a privileged creditor of the succession in the sum of $5,000, with legal interest thereon from Jan. 1, 1924, for professional services rendered Mrs. Bouziga from Jan. 30, 1923, until her death, Dec. 27, 1923. The evidence disclosed that Mrs. Bouziga, who was 77 years of age when she died, was stricken with a cerebral hemorrhage on or about Jan. 30, 1923, and that this physician was called in to treat her. At first her condition improved. Later she developed Bright's disease, and a few days afterward grippal pneumonia. Several weeks after that she developed erysipelas, and, in her declining condition, and at her advanced age, developed senile gangrene and infectious vesicles, which had to be ruptured. She also suffered from incontinence of urine and feces. She left an estate valued at a little over $27,000. Her income was about $100 a month.

The number of visits paid by a physician to his patient, during a protracted illness, is a factor in determining the compensation to which he is entitled. The number of visits paid by this physician to Mrs. Bouziga during the eleven months' period that he attended her was in dispute. The trial judge, after considering the evidence, fixed the number at 300, and the examination of the record by this court led it to the conclusion that there was no reason to disturb his finding in that respect. The services rendered by the physician were those of a family physician. The expert evidence offered to show their value was conflicting. The trial court found that he was entitled to $1,500, but the supreme court's appreciation of the evidence leads it to the conclusion that this was excessive. After considering the number of visits made by the physician, the nature of the maladies from which Mrs. Bouziga suffered, and her means to pay, all of which should be taken into consideration, the opinion of the supreme court is that the evidence justified the conclusion that the physician was entitled to $1,000 and no more, and that the judgment for $1,500 should be reduced accordingly. Wherefore it is ordered that the judgment be amended by reducing the amount allowed from $1,500 to $1,000, and, in all other respects, including the allowance of interest and the recognition of the privilege prayed for, that it be affirmed; the costs of this appeal to be paid by the physician. Rehearing denied.

Society Proceedings

COMING MEETINGS

Associated Anesthetists of the United States and Canada, Nottingham, England, July 20-23. Dr. F. H. McMechan, Avon Lake, Ohio, Sec'y.
Montana, Medical Association of, Billings, July 16-17. Dr. E. G. Balsam, 222 Hart-Albin Building, Billings, Secretary.
Wyoming State Medical Society, Lander, July 12-13. Dr. Earl Whedon, Sheridan, Secretary.

ASSOCIATION OF AMERICAN PHYSICIANS

Forty-First Annual Meeting, held at Atlantic City, N. J., May 4-5, 1926

(Continued from page 1937)

Cirrhosis of the Liver Resulting from Acute Yellow Atrophy

DRS. JOSEPH H. PRATT, Boston, and ALFRED STENGEL, Philadelphia: We have found twelve cases among 5,000 of toxic cirrhosis. Our ideas of acute yellow atrophy should be revised. Many cases present the picture of catarrhal jaundice, but are really acute yellow atrophy in which recovery occurs. The textbook description really applies to the severe fatal case.

DISCUSSION

DR. JONATHAN MEAKINS, Montreal: In Edinburgh the alcoholic type of cirrhosis of the liver is practically unknown. I did not see one case during five years in Edinburgh with this diagnosis, but one woman of 50 was admitted to the Royal Infirmary for some acute condition associated with jaundice. There were leucine and tyrosine crystals in the urine. She had an acute infection in the throat, large abscesses, but was not syphilitic. The jaundice persisted in a mild form. Finally, the woman returned with a severe, acute exacerbation of the jaundice which was very deep. She died and the postmortem showed an acute exacerbation of the necrosis superimposed on previous infection. There was another case, a man of 30, with intense jaundice and great prostration. He had apparently a case of acute yellow atrophy, with leucine and tyrosine in the urine. He recovered with good health, and returned four years later with all the symptoms of acute portal obstruction, from which he died. Necropsy showed a definite cirrhosis of the liver. I was interested to find how often cirrhosis of the liver occurred in Edinburgh, when, according to the records, there are very few cases.

DR. ALFRED STENGEL, Philadelphia: Our notions of acute yellow atrophy require fundamental revision. We are dealing with an entity that attaches itself to a number of underlying states. For instance, patients with chronic liver disease frequently die of acute yellow atrophy. We can show that it is acute catarrhal jaundice recognized by all strict criteria, and sometimes terminates as acute yellow atrophy. Acute yellow atrophy is a misnomer when recorded as a fatal disease, but it may be subacute or it may lead to recovery with replacement of cirrhosis and cirrhotic states. It seems rather peculiar that in proving recovery of patients with acute yellow atrophy we should prove it by the few fatal cases, but the recovery refers to previous states. Oomherr said it should be called acute red atrophy of the liver, the liver was so red at operation. Another objection to the term is that it is not entirely an acute disease but comes in acute attacks.

Hyperthyroidism and Diabetes

DR. RUSSELL M. WILDER, Rochester, Minn.: Patients with hyperthyroidism, even with a trace of sugar in the urine, respond to the glucose test meal by a rise in the respiratory quotient; therefore these patients are not diabetic. When we speak of derangement of carbohydrate metabolism in hyperthyroidism, in cases with true diabetes associated with hyperthyroidism, we are dealing with very rare cases, only nine having been found among 1,800 cases. In a study of 2,300 cases, I found thirteen cases of diabetes. This figure was not high enough to warrant the assumption that the thyroid plays a rôle in the etiology of diabetes. However, when the patient has diabetes, the complication of hyperthyroidism aggravates it and increases the insulin requirement. Iodine acts very favorably on the tolerance of the diabetic patient, and thyroidectomy, which reduces the metabolic rate, acts favorably in such complicated cases. Hyperthyroidism, which causes rise in metabolism, is a very dangerous complication. Drugs that lower the metabolism in hyperthyroidism have a good effect on the tolerance of the patient with diabetes. The only exception to this rule is exercise, which seems to have the reverse effect. These observations deserve especial attention, the most significant thing being the influence of iodine in diabetes. This drug improves tolerance by lowering the metabolic rate, and when it does not lower the metabolic rate it has no influence. Therefore the body requires a given quantum of glucose, but it requires more insulin when the cell is stimulated by hyperthyroidism, which causes it to convert energy at a more rapid rate. The patient with no diabetes has more than enough insulin to meet excessive demands, but the patient with diabetes has not enough insulin for excess demands.

DISCUSSION

DR. HENRY A. CHRISTIAN, Boston: The explanation given by Dr. Wilder is probably correct. A hyperthyroid condition overdrives the circulation, and if we carry out therapeusis for circulatory disease we undertake to give complete rest. Perhaps the ideal rest is in the condition of hypothyroidism, so that if we reduce thyroid efficiency we increase the potential efficiency of the circulation. If the patient has myxedema and also organic circulatory disturbance, we are confronted with a problem of curing the myxedema without harming the circulation. We sometimes have the problem of myxedema with anemia, combined with a myocardial lesion, which seems to be the effect of the myxedema. It is necessary to improve the anemia by improving the myocardial condition by giving thyroid, but we are limited by the response in the already injured heart muscle. That relation between circulatory disturbance and thyroidism parallels closely diabetes with hyperthyroidism or hypothyroidism.

DR. ELLIOTT P. JOSLIN, Boston: When a diabetic patient has symptoms of hyperthyroidism, one should relieve the patient of the cause of the symptoms. Diabetic patients with hyperthyroidism should be operated on. The greatest emergency is the danger of overfeeding. Injudicious feeding, fever or any other cause that increases metabolism, such as hyperthyroidism, must be guarded against.

DR. W. M. BOOTHBY, Rochester, Minn.: Another group of patients who are very important are those with diabetic coma, who do not respond to the usual dosage of insulin, and have no infection. In such cases there may be a combination of hyperthyroidism and diabetic coma. We should be on guard for cases of diabetes combined with adenomatous goiter with hyperthyroidism. Probably it would not be worth while to make a differential diagnosis. It would be sufficient to establish that there was hyperthyroid activity, and to give large doses of compound solution of iodine, approximating 100 minims (6 cc.) in the first twenty-four hours.

DR. RUSSELL M. WILDER, Rochester, Minn.: We have given thyroxin to a well controlled patient receiving insulin, with severe diabetes. We mixed the thyroxin with the insulin. We let it stand for twenty-four hours and then injected it. If the old theories were right, we should see immediate effect, but we got response after thirty-six hours. When the basal metabolic rate went up, we have let it stand seventy-two hours. In our observations on hyperthyroidism we found that when the liver is empty of glycogen it has an important clinical bearing. Patients with hyperthyroidism very frequently have livers that are poor in glycogen; and, being poor in glycogen, doses of insulin produced very severe hypoglycemia. One case occurred in which the surgeon did not understand what the collapse of the patient was due to. The surgeons had taken the blood pressure and were surprised to find that it was high. When glucose was injected, the patient recovered from collapse and the blood pressure fell. There can be a hyperpyesia in hypoglycemia. Hypoglycemia occurs in a patient with collapse.

(To be continued)

Current Medical Literature

AMERICAN

The Association library lends periodicals to Fellows of the Association and to individual subscribers to THE JOURNAL in America for a period of three days. No foreign journals are available prior to 1921, nor domestic prior to 1923. Periodicals published by the American Medical Association are not available for lending, but may be supplied on order. Requests should be accompanied by stamps to cover postage (6 cents if one and 12 cents if two periodicals are requested).

Titles marked with an asterisk (*) are abstracted below.

American Journal of Ophthalmology, Chicago

9: 241-320 (April) 1926

Coloboma of Optic Nerve. M. L. Lerner, Rochester, N. Y.—p. 241.
Tuberculosis of Eye. J. E. Weeks, New York.—p. 243.
Fusion Faculty: Some Anomalies. W. B. Lancaster, Boston.—p. 247.
Contributing Factors in Failure to Correct Convergent Concomitant Squint. L. C. Peter, Philadelphia.—p. 253.
Intra-Orbital Anesthesia. M. D. Icove, San Francisco.—p. 260.
Lid Traction: Greatest Safeguard Against Vitreous Loss in Cataract Operations. P. Obarrio, San Francisco.—p. 264.
Improved Technic for Iridectomy for Glaucoma. G. F. Suker and B. Cushman, Chicago.—p. 268.
How to Avoid Toxic Symptoms from Homatropine. W. H. Crisp, Denver.—p. 270.
New Method (Suction) for Removal of Foreign Bodies on Cornea. S. Israel, Houston, Texas.—p. 271.
Ocular Findings in Postencephalitic Syndrome. L. Lehrfeld, Philadelphia.—p. 272.
Breath Screen for Slit Lamp Work. C. Stockard, Atlanta.—p. 273.

Annals of Surgery, Philadelphia

83: 449-576 (April) 1926

Management of Advanced Cancer of Stomach. N. W. Green, New York.—p. 449.
*Abdominal Puncture in Diagnosis of Acute Intraperitoneal Disease. H. Neuhof and I. Cohen, New York.—p. 454.
*Local Versus General Anesthesia for Upper Abdominal Operations: Comparison of Postoperative Conditions. J. T. Mason, Seattle, Wash.—p. 463.
Penetrating Gastric Ulcer, Situated Near Cardia: Visualization of Cardia. R. Lewisohn, New York.—p. 466.
Peptic Ulcer of Meckel's Diverticulum. E. Stulz and P. Woringer, Strasbourg, France.—p. 470.
Dilation of Common Bile Duct in Absence of Functioning Gallbladder. R. C. Coffey, Portland, Ore.—p. 479.
*Aseptic End-to-End Suture of Intestine. J. E. Scarff, Baltimore.—p. 490.
*Tuberculosis of Cecum. J. W. Larimore and A. O. Fisher, St. Louis.—p. 496.
*Experimental Results in Use of Dead Fascia Grafts for Hernia Repair. A. R. Koontz, Baltimore.—p. 523.
Skin Plastics in Treatment of Traumatic Lesions of Hand and Forearm. H. H. M. Lyle, New York.—p. 537.

Abdominal Puncture in Diagnosis of Acute Intraperitoneal Disease.—Exploratory abdominal puncture is said by Neuhof and Cohen to be a simple, safe, and valuable aid in the diagnosis of obscure acute intra-abdominal disease. It serves to establish the diagnosis of a traumatic or inflammatory intraperitoneal lesion in some cases in which the diagnosis cannot otherwise be made. In other instances, abdominal puncture offers conclusive information as to the source and nature of a peritonitis, and thus aids directly in arriving at the therapeutic indication as well as the prognosis. In the peritonitis group, abdominal puncture is of especial value in establishing the diagnosis of the pneumococcus and streptococcus infections. Abdominal puncture is contraindicated in any subacute or chronic intra-abdominal disease in which a loop of intestine may be fixed. A negative abdominal puncture does not exclude the presence of fluid and should therefore never be interpreted as a contraindication to operation in suspected peritonitis or traumatic visceral lesions. Abdominal puncture should be employed as an aid to diagnosis in every obscure acute intraperitoneal lesion for which operation may be indicated.

Local and General Anesthesia in Laparotomy.—One hundred consecutive upper abdominal operations have been studied. Fifty of these were performed under ether and fifty under local, or local and gas anesthesia. All operations were performed by one surgeon, in the same hospital, with practically no changes in the surgical staff or the floor nurses. General anesthesia was induced by the inhalation of nitrous oxide and oxygen and continued with ether given by the open or drop method, an Esmarch inhaler being used. The local anesthesias were induced by infiltration of the anterior abdominal wall, followed by anterior splanchnic block. The solution used was a 0.5 per cent solution of procaine in 0.6 per cent sodium chloride, with 9 drops of epinephrine chloride added to each 100 cc. An average of only eight minutes more was required for each operation under local, than for each of the fifty under ether anesthesia. The average temperature for the first week after operation was below 99 F. in local cases and above 99 F. in ether cases. The average stay in the hospital after operation was three days less for the cases under local anesthesia. Of the local anesthetic patients only eighteen vomited, while thirty-three of the ether patients vomited. Also, in the latter, vomiting was more marked and more persistent. Only nineteen of those having a local anesthetic against thirty of the ether patients suffered gas pains. Severe shock was experienced only once in this series, and mild shock four times. This occurred each time after ether anesthesia. There was no surgical shock after anesthesia by local injections. Bronchitis was encountered in eleven patients taking ether and in three after local anesthesia. There was one pneumonia case. This patient, who was 59 years old, had an acutely diseased gallbladder and bilateral pyelitis. Operation was under local anesthesia and was successful from the operative standpoint. The patient died eight days after operation—the only death of this series. There was no hernia or phlebitis.

Aseptic Intestinal Anastomosis.—It was recently observed that if the walls of an empty loop of bowel are approximated and strongly crushed in a clamp, they will adhere to each other quite firmly and the intestinal lumen remain occluded after the clamp has been removed. This fact has been utilized by Scarff in the development of a simple technic for aseptic end-to-end anastomosis of the intestine.

Tuberculosis of Cecum.—Larimore and Fisher report five cases of tuberculosis of the cecum with involvement of the lungs, in which the cecum was resected. There was one operative mortality; in general, the convalescence has been uneventful and satisfactory.

Dead Fascia Grafts in Herniotomy.—Experiments made by Koontz show that grafts of dead fascia, preserved in alcohol, when transplanted among living connective tissues, remain intact and unite with the tissue of the host. After a period of a few months, it is impossible to distinguish the living from the "dead." The living and "dead" are likewise indistinguishable microscopically. The suturing together of the internal oblique muscle and Poupart's ligament with strips of dead fascia in the dog results in the firmest type of fibrous union. Large, experimentally produced, ventral hernias in the dog can be successfully repaired by the use of large grafts of dead fascia. Dead fascia grafts may be homogenous or heterogenous.

Boston Medical and Surgical Journal

194: 759-808 (April 29) 1926

*Reticulated Red Cells. W. Dameshek, Boston.—p. 759.
Pathology and Roentgen-Ray Diagnosis of Periapical Tooth Infection. K. H. Thoma, Boston.—p. 768.
Chronic Fatigue in Schoolchild: Psychophysiologic Study. M. Seham, Minneapolis.—p. 770.

Reticulated Red Cells.—An analysis of the red blood cells in forty-nine cases of pernicious anemia is presented by Dameshek. He regards the reticulate count of the red cells as a true index of bone marrow activity. Before and at the beginning of any remission or permanent rise in red count, the reticulate count surpasses 6 per cent; as the culmination of the rise is reached, it gradually falls to normal (from 0.5 to 1 per cent). With bone marrow aplasia, the reticulate count is extremely low, practically nil. There is no better index to prognosis in pernicious anemia than the count of the reticulated cells. Although these are frequently increased, and an elevation up to 5 per cent represents probably regeneration going on in the face of greater destruction—a sudden rise in count to more than 6 per cent presages a coming remission, overbalancing destructive forces. Very grave are the continued low counts that bespeak forthcoming death.

The relapse in pernicious anemia is closely related or at least extremely similar to aplastic anemia, which with its evident bone marrow failure, has an almost absent reticulate count. Platelet regeneration and aplasia are apparently closely related to red cell growth, for in purpura hemorrhagica the reticulate count goes up before recovery and remains low, with impending death from hemorrhages. In the field of diagnosis, the marked reticulosis in congenital hemolytic anemia is a pathognomonic point differentiating that disease from all other anemias with large spleens.

Canadian Medical Association Journal, Montreal

16: 349-486 (April) 1926

Nephrosis. W. Boyd, Winnipeg, Manit.—p. 349.
Complement in Health and in Disease. F. T. Cadham, Winnipeg, Manit. —p. 352.
Roentgen Rays and Radium in Management of Breast Carcinoma. G. E. Richards, Toronto.—p. 358.
*Influence of Dihydroxyacetone on Blood Sugar and Glycosuria. E. H. Mason, Montreal.—p. 367.
*Definition and Classification of Pseudoleukemias. T. R. Waugh, Montreal.—p. 374.
Hemolytic Jaundice Associated with Splenomegaly. W. E. Gallie and R. M. Janes, Toronto.—p. 379.
*Splenectomy for Purpura Hemorrhagica. R. I. Harris, Toronto.—p. 384.
*Blood Regeneration. N. B. Eddy and A. W. Downs, Edmonton, Alta. —p. 391.
Leprosy in Montreal: Case. C. R. Bourne, Montreal.—p. 395.
Plaster Shells in Treatment of Tuberculosis and Fracture of Spine. A. P. MacKinnon, St. Boniface, Manit.—p. 399.
Case of Mercuric Chloride Poisoning by Genital Tract (Vaginal Douche). J. Miller, Kingston, Ont.—p. 403.
Case of Dural Endothelioma with Xanthochromia. L. M. Lindsay, Montreal.—p. 407.
*Potency of Tinctures of Digitalis and Strophanthus Purchased at Various Points on Canadian Market. F. W. Ward, Ottawa.—p. 409.
Use of Nonspecific Foreign Protein in Treatment of Inflammatory Lesions in Female Pelvic Organs. A. D. Campbell, Montreal.—p. 413.
Tuberculosis Complications in Digestive Tract in Course of Pulmonary Disease. R. J. Collins and G. L. Leslie, River Glade, N. B.—p. 417.
*Use of Ephedrine in Bronchial Asthma. H. E. MacDermot, Montreal. —p. 422.
Tracheal Collapse During Thyroidectomy. C. K. P. Henry, Montreal. —p. 424.
Case of Obstinate Urethral and Rectal Retention Cured by Psycho-Analytic Methods. N. Viner, Montreal.—p. 425.
Phrenicotomy in Traumatic Injury to Chest. W. P. Warner, Welland, Ont.—p. 427.
Nontoxic Goiter with Nervous Symptoms. H. O. Foucar, London, Ont. —p. 428.
Pituitary Extract in Asphyxia Pallida. J. B. Mann, Peterborough, Ont. —p. 429.

Influence of Dihydroxyacetone on Blood Sugar and Glycosuria.—Thirty-four cases are reviewed by Mason. He shows that, in patients with a normal carbohydrate tolerance, the ingestion of dihydroxyacetone in 25 or 50 Gm. doses results in a very slight transitory rise in the blood sugar. When it is given in small interrupted doses, there is a progressive fall. In diabetes mellitus the increment increase in blood sugar is not as great after dihydroxyacetone as after a like dose of glucose. When it is introduced intravenously in a dose of 25 Gm., diabetic patients, with a fair carbohydrate tolerance, show very little rise in the blood sugar. Dihydroxyacetone, ingested in small but frequent doses in three cases of diabetes mellitus in short period experiments, could not be accounted for by the glucose excretion and the tissue retention. The results are suggestive that in certain cases of diabetes mellitus the ingested dihydroxyacetone is not quantitatively converted into glucose.

Classification of Pseudoleukemia.—Waugh divides the leukemias into three varieties: clinical, hematologic and histologic. Clinically, pseudoleukemia stands for a quite distinct symptom complex. The hematologic pseudoleukemias are characterized by a blood picture which simulates that of a leukemia. Pseudoleukemias in the histologic sense include, among others, the metaplasias and status lymphaticus.

Splenectomy for Purpura Hemorrhagica.—The case reported by Harris was one of essential thrombocytopenic purpura of severe degree, occurring in a girl, aged 11. Transfusion was of some palliative value, but splenectomy produced an immediate cure. The clinical picture and the result from splenectomy are in accord with previously reported cases.

Blood Regeneration.—The dietary factors which Eddy and Downs have found to favor production of hemoglobin and red blood corpuscles, arranged in the order of their importance, are cooked beef liver, lean beef and beef heart, spinach and beet tops, fruits and other green vegetables. Rigidly controlled experiments failed to show any beneficial effect on blood regeneration of arsenic or germanium dioxide, and iron was effective only if the iron reserve of the organism was exhausted. Favorable results have been obtained by the oral administration of dried powdered spleen and red bone marrow in the majority of cases of secondary anemia in which the combination has been tried. Experimental findings strongly suggest a trial of secretin in similar cases.

Potency of Digitalis and Strophanthus Tinctures.—The samples of tincture of digitalis assayed by Ward varied in strength from 30 to 150 per cent, or from a point 70 per cent below the standard of the U. S. Pharmacopeia, to a point 230 per cent above the same standard; that is, some samples are ten times as strong as others. This variation is between samples put out by two different manufacturers. But the samples of the same manufacturer vary; one sample has not been found as strong as another sample purchased elsewhere or at a different time. The variation in potency of tinctures of strophanthus ran parallel to that of digitalis. Some samples were 80 per cent below standard and others 430 per cent above standard. The variation between manufacturers' preparations was very marked, and the variation between samples of the same manufacturer was also marked.

Ephedrine in Bronchial Asthma.—The conclusions drawn by MacDermot from his experiences are that ephedrine produces well-marked antispasmodic effects in asthma, and that these are of longer duration than those produced by epinephrine in similar cases, and that repeated doses may be safely given over prolonged periods.

Laryngoscope, St. Louis

36: 235-312 (April) 1926

Roentgen-Ray Examination of Paranasal Sinuses, Optic Canals, Pharynx and Larynx. H. A. Goalwin, New York.—p. 235.
Diagnosis and Treatment of Paranasal Sinus Infections in Infants and Young Children Under Ethylene Anesthesia. L. W. Dean, Iowa City. —p. 257.
Fracture of Face (Superior Maxillae). W. A. Boyce, Los Angeles.—p. 266.
Puncture Irrigation of Sphenoidal Sinuses with New Instrument. A. Lobell, New York.—p. 270.
Aberrant Pulsating Vessels in Pharyngeal Wall. H. Dupuy, New Orleans.—p. 283.
Posttonsillectomy Hemorrhage Due to Atropine. C. W. Jennings, Greensboro, N. C.—p. 287.
Is Differential Diagnosis Between Middle and Internal Ear Deafness Possible? A. G. Pohlman, St. Louis, and F. W. Kranz, Geneva, Ill. —p. 289.
Diagnosis of Tuberculous Otitis: Case. M. E. Kahn and S. J. Pearlman, Chicago.—p. 299.
Egg Shell in Larynx: Case. J. I. Berlin, Jersey City, N. J.—p. 304.
Bilateral Mastoiditis in Twins Accompanied by Dentition and Complicated by Facial Paralysis: Cases. J. M. Mayer, New York.—p. 305.

New Jersey Medical Society Journal, Orange

23: 155-202 (April) 1926

Some Phases of Thyroid Disease. F. H. Lahey, Boston.—p. 155.
Value of Roentgen Ray in Diagnosis. E. E. Downs, Swedesboro.—p. 160.
Diagnosis of Tuberculosis. J. R. Morrow, Ridgewood.—p. 163.
Prevention of Rickets—Public Health Problem. J. Levy, Newark.—p. 165.
Uterine Hemorrhage: Causes and Treatment. E. Novak, Baltimore.—p. 167.
Referred Pains of Rectal Origin. J. F. Montague, New York.—p. 171.
Treatment of Certain Cardiac Emergencies. H. E. B. Pardee, New York.—p. 172.
*Operation for Abductor Paralysis of Hip. P. C. Colonna, New York. —p. 177.

Operation for Abductor Paralysis of Hip.—The operation proposed by Colonna is said to be of value in cases with paralysis of the hip if the quadriceps femoris muscle is active. It is proposed to take advantage of a portion of the quadriceps femoris muscle by detaching the long head, the rectus femoris, from its two origins and freeing this portion from its bed for a few inches; this long head is then brought through the fascia lata and is placed superficially to the tensor fascia lata, after which it is inserted into the crest of the ilium or fascia covering the paralyzed gluteus medius muscle.

New York State Journal of Medicine, New York

26: 335-374 (April 15) 1926

Use of Schick Test Before and After Injection of Toxin-Antitoxin for Immunization. W. H. Park, New York.—p. 347.
Physical Agents in Treatment of Some Common Dermatoses. A. Rostenberg, New York.—p. 349.
Psychiatric Problems in Care and Management of Delinquent Children in New York State. V. C. Branham, Ellenville.—p. 350.

Radiology, Chicago

4: 273-364 (April) 1926

Gallbladder Diagnosis from Standpoint of Surgeon. E. A. Graham, St. Louis.—p. 273.
Evolution of Early to Late Galltract Disease. B. B. V. Lyon, Philadelphia.—p. 279.
Clinical Study of Cholecystitis with Aid of Cholecystography. O. C. Zink, St. Louis.—p. 286.
Practical Value of Graham-Cole Method in Diagnosis of Gallbladder Disease. A. W. George, Boston.—p. 292.
Technic for Intravenous Infusion of Sodium Tetra-Iodophenolphthalein in Cholecystography. L. J. Liest, Milwaukee.—p. 300.
Roentgenologic Exploration of Bronchial Tubes with Iodized Oil (Lipiodol). J. Forestier, Paris.—p. 303.
Radioactive Substances and Their Therapeutic Uses and Applications. J. Muir, New York.—p. 310.
Physical Standards of Protection Against Roentgen-Ray Dangers. A. Mutscheller, New York.—p. 314.
Erythema Doses in Absolute Units. W. H. Meyer and Otto Glasser, New York.—p. 320.
Roentgen-Ray Findings in Lobar Pneumonia. W. W. Belden, New York.—p. 329.
Potter-Bucky Diaphragm Technic. E. C. Jerman, Chicago.—p. 336.

FOREIGN

An asterisk (*) before a title indicates that the article is abstracted below. Single case reports and trials of new drugs are usually omitted.

British Journal of Experimental Pathology, London

7: 47-94 (April) 1926

Sanocrysin in Treatment of Tuberculosis in Rabbit. S. L. Cummins.—p. 47.
*Antigenic Properties of Precipitates Produced by Interaction of Diphtheria Toxin and Antitoxin. II. P. Hartley.—p. 55.
*Volumetric Measurement by Drops in Bacteriologic Technic. P. Fildes and W. A. M. Smart.—p. 68.
Differences in Cell Content Shown by Staining with Acid and Alkaline Salts of Congo: Demonstrating Elastic Tissues. T. H. C. Benians.—p. 79.
Rous Fowl Sarcoma No. 1. I. Filtrability. W. E. Gye and C. H. Andrewes.—p. 81.
*Self-Control and Inhibition in Suprarenal. W. Cramer.—p. 88.

Antigenic Properties of Diphtheria Toxin and Antitoxin.—With the use of the same diphtheria toxin and antitoxin, an overneutralized, a neutral and an underneutralized (toxic) mixture have been prepared by Hartley. The antigenic properties of the washed precipitates, which separated from these mixtures, have been investigated. The toxic and antigenic properties of these precipitates bear a close relationship to the nature of the mixture from which they are derived. The precipitate from the overneutralized mixture was atoxic, and its antigenic activity was small; the precipitate from the neutral mixture was also devoid of toxicity, but it was a good antigen; the precipitate from the toxic mixture was itself toxic when injected in relatively large doses, and it was also a remarkably active antigen. The precipitates contain less than 1 per cent of the total nitrogen present in the mixtures from which they separate. Some evidence has been obtained which suggests that the large amount of extraneous nitrogenous compounds which toxin-antitoxin mixtures contain interferes with the production of antitoxin. Antitoxin production follows the injection of very small amounts of those precipitates which separate from neutral or toxic mixtures.

Volumetric Measurement by Drops.—The effect of the rate of delivering drops on the weight of the drops is demonstrated by Fildes and Smart, and the relation of the external diameter of the dropping-tube to the weight of the drop is shown over the whole range in which drops of water can be delivered in air. Nomograms have been prepared to show at a glance the relationships between drop-weight, drop-rate and the size of the pipet.

Self-Control and Inhibition in Suprarenal.—Cramer asserts that the suprarenal possesses the power to control its functional activity in such a way as to prevent the gland from stimulating itself to complete exhaustion. The existence of such a mechanism is necessitated by the fact that the gland is stimulated to secretion by the sympathetic, and secretes as its specific hormone a substance—epinephrine—which itself specifically stimulates the sympathetic. It is shown that the injection of epinephrine and also prolonged feeding with thyroid produce characteristic changes in the suprarenal medulla, which effect a "self-control" of the gland. In addition, there is a mechanism which effects an "inhibition" of the functional activity of the gland. This mechanism is located in the cortex and manifests itself as a disappearance of the cortical lipoid. It can be most readily demonstrated by exposing an animal to conditions such as a hot environment, under which an activity of the gland would lead to the death of the animal by heatstroke. The bearing of these conceptions on the pathology of the suprarenal and thyroid is discussed.

Journal of Pathology and Bacteriology, Edinburgh

29: 141-223 (April) 1926

*Occurrence of Brucella Abortus and Mycobacterium Tuberculosis in Cows' Milk. G. S. Wilson and M. M. Nutt.—p. 141.
Bacterial Variation: Alleged Convergent Phenomena Exhibited by B. Typhosus and B. Enteritidis, Gärtner. A. N. Goyle.—p. 149.
*Reticle of Endothelial Cells in Thyroid and Parathyroid. G. S. Williamson and I. H. Pearse.—p. 167.
Heterologous Cancer Grafts: Growths of Mouse Cancer in Rats. J. Gheorghiu.—p. 171.
Influence of Thyroid Feeding on Islets of Langerhans in Guinea-Pig. G. R. Cameron.—p. 177.
Epidemic Affecting Stock Rabbits. G. R. Cameron and F. E. Williams.—p. 185.
*Arthritic Muscular Atrophy: Oxygen Consumption of Atrophied Muscles. A. E. B. Harding.—p. 189.
*Calcification in Rabbit's Brain. C. Da Fano and J. R. Perdrau.—p. 195.
Four Human Blood Groups: Agglutination Titers; Abnormal Donors. A. R. Jones and E. E. Glynn.—p. 203.

Abortus and Tubercle Bacilli in Cow's Milk.—Wilson and Nutt assert that about 5.7 per cent of single milks and 8.8 per cent of mixed milks are infected with *Brucella abortus*. Incidentally, 13 per cent of mixed milks have been found to contain the tubercle bacillus.

Histology of Thyroid and Parathyroids.—A reticle of endothelial cells is described by Williamson and Pearse in the thyroid and parathyroid bodies. Individual cells of this reticle appear, under certain circumstances, as large stellate granular cells. These stellate cells are compared to the Kupffer cells of the liver. The contents of the cytoplasm of the reticuloendothelial cells vary with variations in the functional activity of the thyroid and parathyroid glands.

Oxygen Consumption of Muscle.—Harding states that the oxygen consumption of muscle wasted as the result of an arthritis is definitely increased above the normal, whereas that of muscles wasted as the result of disuse is unaltered.

Calcification in Rabbit's Brain.—An incrustation of nerve cells and a deposition of either globular or granular material have been observed by Da Fano and Perdrau in the brains of two rabbits which, owing presumably to partial immunity, had clinically recovered from an herpetic encephalitis. In addition, in one of them, the parasites of so-called spontaneous encephalitis had been found. Both incrustations and depositions were confined to brain areas in which a severe destructive infiltrative and reactive process had occurred. Their histologic aspect was suggestive of a process of calcareous degeneration, but microchemical reactions showed that they were due to a precipitation of iron salts on necrotic nerve cells and on a substance having in the specimens a coagulated appearance. These changes having occurred during the evolution of an inflammatory process, the supposition is that both the incrustating iron salts and the coagulable material had a hematogenous origin, and were presumably connected with the presence in the affected brain regions of an exudation possibly containing hemoglobin.

Medical Journal of Australia, Sydney

1: 399-422 (April 10) 1926

Treatment of General Paralysis of Insane by Malaria. R. S. Ellery.—p. 401.
Diagnosis of Tuberculosis of Bones and Joints. R. M. Downes.—p. 404.
Infectious Mononucleosis: Two Cases. P. E. W. Smith.—p. 407.

Archives des Maladies du Cœur, etc., Paris

19: 217-279 (April) 1926

*Atrioventricular Bradycardia. D. Danielopolu and G. G. Proca.—p. 217.

Auriculoventricular Heart Rhythm.—The whole of this profusely illustrated issue is devoted to Danielopolu and Proca's research on the rhythm as long studied in two clinical cases. They explain the mechanism of the transient transformation of auriculoventricular bradycardia into flutter. They also describe the action on the heart rhythm of the vagus test, compression of the eyeball, digitalis, epinephrine, efforts, forced respiration and swallowing. There is reported a case of atrioventricular bradycardia with electrocardiograms revealing a ventricular complex between two auricular complexes. In another observation the atrioventricular rhythm coexisted with a partial auricular flutter. The technic is given for exploration of the auriculoventricular rhythm; its graphic character and forms, anatomic location of the contractions, and the mechanism of heart block in general.

Archives de Médecine des Enfants, Paris

29: 185-248 (April) 1926

Kala-Azar in Children in France. P. Giraud.—p. 185.
*False Kernig Sign in Poliomyelitis. L. Morquio.—p. 209.
Adiposogenital Syndrome with Dwarfism. G. Schreiber and G. Boulanger-Pilet.—p. 215.
Mediastinal Pleurisy in Children. J. Comby.—p. 220.

False Kernig Sign in Acute Anterior Poliomyelitis.—Morquio describes what he calls the pseudo-Kernig sign, observed in the painful form of anterior poliomyelitis, in South America. When the child is made to sit up, it protests with distress, on account of the pain, throwing its head back and stiffening the neck and spine. But if it is placed on the edge of the bed, the thighs gently flexed, the pain and rigidity disappear, and the child no longer resists. The rigidity in this case is more pronounced than in meningitis. There is no parallelism between the functional disturbance and the cell changes. The false Kernig sign does not seem to be connected with changes in the cerebrospinal fluid. The sign is absent in the meningitis form of anterior poliomyelitis. It may be of help in diagnosis of dubious cases, or in differentiation from meningeal conditions.

Presse Médicale, Paris

34: 529-544 (April 28) 1926

*Action of Pituitary Extract on Diuresis. M. Labbé et al.—p. 529.
Intravascular Migration of Projectiles. Binet and Péron.—p. 530.
*Migration of a Projectile. De Saint-Avid and Léonard.—p. 532.
*Has the Appendix an Endocrine Function? Moutier and Fouché.—p. 532.

Action of Pituitary Extract on Diuresis.—Labbé, Violle and Azerad's research demonstrated that injections of pituitary extract, especially of the posterior lobe, seem to reduce the urine secretion in persons with normal water metabolism. The diuresis appeared unchanged if the injections were given before the night sleep. This is compared with Smith and Closky's results in rabbits. In these animals, oliguria from pituitary extract changed into polyuria under the influence of anesthesia. The decrease of urine secretion may be explained by the vasoconstrictor action in the kidney of the pituitary extract. It is partly inhibited under the general vasodilatation that occurs during sleep.

Migration of a Projectile.—De Saint-Avid and Léonard found in the right lung a scrap of projectile which had entered the left thigh six years before. The man was complaining of severe pain in the region of the right nipple, and bloody sputum. Roentgenograms showed a shadow in the right lung hilum, the size of a pea. Auscultation revealed fine, moist râles at the point of the scapula. The lesions of the lung seemed to be of a chronic character, the projectile having been carried to the lung in a short time.

Has the Appendix an Endocrine Function?—Moutier and Fouché observed notable obesity after appendectomy in five cases; disturbances of ovarian functioning in three; dysmenorrhea or amenorrhea, persisting for one to three years, with hyperthyroidism. In two instances removal of the appendix had apparently induced a syndrome of infantilism. Their conclusion is that the appendix seems to have a certain endocrine function. Its insufficiency may be gradually compensated in chronic cases. All their patients were operated on at the onset of appendicitis.

34: 545-560 (May 1) 1926

*"Dietotoxic Foods." G. Mouriquand.—p. 545.
*Treatment of Ovarian Insufficiency. A. Crainicianu.—p. 545.
Bacteriophage Treatment of Urinary Infections. A. Ravina.—p. 548.

"Dietotoxicity": Conditionally Toxic Elements in Foods.—In Mouriquand's experiments on guinea-pigs, about 2 cc. of cod liver oil was added to the food, consisting of maize, hay and lemon juice. No general or bone disturbances were noted. Then the hay was omitted; the animals then developed grave lesions of the bones with spontaneous fractures and hemorrhages. All these symptoms disappeared as soon as hay was given again, although the oil was still continued. Evidently cod liver oil may be a bone nutrient with a balanced diet; or it may induce dystrophic changes with an unbalanced diet. Substances nontoxic in themselves or with normal feeding seem to reveal a latent toxicity with an unbalanced diet. These "dietotoxic" substances may not induce typical phenomena of poisoning or anaphylaxis; but may possibly entail phenomena of autointoxication or idiosyncrasy.

Calcium in Treatment of Ovary Insufficiency.—Crainicianu found a reduced sympathetic and parasympathetic tonus in over 100 cases of congenital or acquired ovarian insufficiency. Calcium was administered to influence the tonus. Four or six daily doses of 1.5 Gm. of calcium lactate were given by the mouth for ten days; if necessary, repeated after a few days. The tonus of the involuntary nervous system rose to normal and all pathologic symptoms completely disappeared two or three weeks later. Large doses of the calcium did not induce digestive disturbances. It seems that accumulation of calcium may be necessary for restoration of the disturbed vagosympathetic balance from ovarian deficiency. The balance may be connected with the calcium ion concentration in the organism.

Chirurgia degli Organi di Movimento, Bologna

10: 209-316 (Feb.) 1926

*Tumors in Joints. F. Fedeli.—p. 209.
Hereditary Cleidocranial Dysostosis. Godoy Moreira.—p. 225.
*Age of Fractures. O. Andrei.—p. 255.
Detachment of Inferior Epiphysis of the Humerus from Birth Injury. U. Camera.—p. 294.

Sarcoma of the Knee.—The myxochondrosarcoma developed in a knee that had been injured at football eighteen months before. A chronic tuberculous apical process had misled the diagnosis at first, but the good general condition, the normal temperature of the knee, and the centrifugal spread of the swelling, the rapid increase in size, the tenderness of the joint interline and the enlarged subcutaneous veins helped to differentiate the malignant tumor.

Roentgenologic Gage of Age of Fracture.—Andrei lists the special serial roentgenoscopic findings characteristic for the ages of the healing process, as studied in 269 cases. He gives a number of roentgenograms and an English summary of his conclusions.

Clinica Medica Italiana, Milan

56: 475-565 (Dec.) 1925

*Calcium Chloride in Treatment of Effusions. F. Oriani.—p. 475.
Chenopodium in Helminthiasis. V. Ronchetti.—p. 490.
*Morphine and Urinary Secretion. E. Porru.—p. 493.
Changes in Blood Injected into the Air Passages. G. Spagnol.—p. 509.
Pathogenicity of Trichomonas. V. Ronchetti.—p. 520.
*Skin Tuberculin Test. Zuccòla.—p. 523.
*The Viscosity of the Blood. O. Da-Riu.—p. 535.
Action of Sodium Cacodylate on the Blood. P. Bissiri.—p. 545.

Calcium Chloride in Treatment of Effusions.—Oriani analyzes eight cases of pleurisy with effusion and two of polyserositis in all but one of which calcium chloride proved promptly effectual. Diuresis was promoted and the effusion was resorbed. The effect was most rapid and intense when salt was omitted from the diet. The ages ranged from 15 to 49. From 15 Gm. a day, at first, the dose was pushed to

30 Gm. in four or five days, and the effusion had generally disappeared by the sixth day.

Influence of Morphine on Diuresis.—Porru warns not to forget that, in minute doses, morphine and its derivatives stimulate secretion of urine, while doses above 0.0001 Gm. per kilogram of weight progressively check diuresis.

The Skin Reactions.—Zuccòla emphasizes that the promptness or retarded appearance of the positive response to the tuberculin skin test is an important element for estimation of the outcome of the test. It is important also to compare the results of several tests at rather long intervals to estimate the trend up or down.

The Viscosity of the Blood in Relation to Heart Functioning.—Da-Riu concludes from the data presented that increased viscosity of the blood after slight physical exertion testifies to weakening of the heart. Squill reduces the diastolic pressure and also tends to lower an abnormally high systolic pressure. It increases the viscosity at first, but later reduces it, and has proved useful in this line.

Clinica Pediatrica, Modena

8: 65-128 (Feb.) 1926

*Bradycardia in Children. G. de Toni.—p. 65.
Laws of Growth the First Year. E. Mensi.—p. 99.

Bradycardia in Children.—De Toni's critical study and personal observations include a case described here in detail in which congenital heart block induced at the age of 8 a Morgagni-Adams-Stokes syndrome in a boy. Stimulation of the vagus induced syncope. This seems to conflict with the present theories on heart block. The boy was treated symptomatically and has developed well, with no return of the syncopes during the seven months since. The pulse is still 40, with some extrasystoles. He rides a bicycle and takes long walks.

Policlinico, Rome

33: 541-575 (April 19) 1926

*Treatment of Pleural Effusion. P. Berri.—p. 541.
*Sending Blood to Laboratory. C. Toscano.—p. 545.
The Seashore from Therapeutic Standpoint. Gioseffi.—p. 547.

Treatment of Pleural Effusion.—Berri reports favorable results from intrapleural injection of 2 cc. of a 12.5 per cent solution of potassium iodide in five cases of persisting effusion, in men, aged 16 to 68. In one, the effusion was secondary to heart disease.

Technic for Keeping Blood for Bang Test for Glucose.—Toscano states that addition of a little sodium fluoride will preserve the blood intact for four or six days without interfering with the Bang test for sugar later. The blood keeps well also when mixed with Bang's dealbuminating fluid.

Archivos Latino-Amer. de Pediatría, Buenos Aires

19: 1307-1391 (Dec.) 1925

*Tuberculoma of the Cecum. F. Bazán and Vallino.—p. 1307.
The Blood in Congenital Syphilis. P. Rueda.—p. 1311.
*Echinococcus Cyst of the Lung. J. Bonaba.—p. 1337.
Prepuberal Dementia Praecox. N. Leone Bloise and Jáuregui.—p. 1340
Diphtheria in the Recently Born. J. J. Leúnda.—p. 1346.
Cerebral Echinococcus Cyst and Hydrocephalus. Bargo.—p. 1349.
Localized Intraspinal Abscess. A. Rodriguez Castro.—p. 1360.
Pure Azotemic Form of Acute Nephritis After Pneumonia. J. Bonaba—p. 1364.

Tuberculous Intestinal Tumor.—When the abdomen was opened, in the girl of 14, the peritoneum was found studded with tuberculous granulations, and the attempt to remove the tuberculoma in the cecum was abandoned. Sixteen months later a laparotomy showed the peritoneum apparently sound, and the bowel tumor was extirpated. There has been no recurrence during the five years to date. Bazán and Vallino have collected from the literature 154 cases of resection of tuberculoma of the cecum, with 35 per cent of definite cures; in 20 per cent pulmonary tuberculosis developed later, and the outcome is unknown in 32 per cent.

Hydatid Cyst of Lung with Pulmonary Tuberculosis.—Bonaba relates that an exploratory puncture for the assumed effusion revealed the echinococcosis but induced violent coughing at once, with vomica, which evacuated the cyst. The general condition was good for a time but then symptoms of rapidly progressive pulmonary tuberculosis developed on that side. Others have reported cases of associated or consecutive echinococcosis and tuberculosis of the lung, generally in patients that had been operated on.

Deutsche Zeitschrift für Chirurgie, Leipzig

195: 217-352 (April) 1926

*Blood Pressure Changes During Operations. V. Schaefer.—p. 217.
Consequences of Excision of Normal Lymph Nodes. H. Baum.—p. 241.
*Experimental Plastic Repair of Bile Ducts. P. Muzeneek.—p. 267.
*Hydrocele and Workmen's Compensation. K. Scheele.—p. 286.
Surgical Observations on Herpes. H. Schroeder.—p. 338.
Spontaneous Hematoma of Abdominal Wall. W. Block.—p. 341.
Myoma of Gubernaculum Testis. R. Bittrolff.—p. 344.
Fibroma of Mesentery. H. Brauneck.—p. 345.

Reflex Blood Pressure Changes During Operations.—Schaefer recorded the blood pressure in 220 patients during operations on various regions and for various conditions. In the greater number the blood pressure was uninfluenced. It was increased in a few cases, in which the patient's general condition was good. Lowered blood pressure, which is more dangerous, was observed frequently when the general condition was poor, and especially during operations on certain regions. Operative injury or irritation of organs in the splanchnic region may cause a reflex loss of vascular tonus of this region, producing collapse. Irritation of the carotid in goiter operations and of the sensory nerves easily leads by reflex action to lowered blood pressures. Strong irritation is necessary to lower blood pressure. Heightened blood pressure is caused by irritation of medium intensity. When the vasoconstrictor system is already weakened by disease, an irritation otherwise slight acts as severe. Reflexes affecting blood pressure may be excited from any part of the body and Schaefer believes that the operation itself is thus responsible for many cases of altered blood pressure heretofore ascribed to the narcotic. Ether or chloroform will lower blood pressure in weak persons. In strong persons ether has usually no effect on the blood pressure, chloroform lowers it moderately. Local anesthesia raises blood pressure in the strong through its psychic effect.

Experimental Studies in the Plastic Repair of the Bile Ducts.—From fifty-three experiments on dogs, Muzeneek regards bridging the defect with a rubber drain, covered with suitable tissue flaps, as the most practical method of plastic repair of fresh injuries of the bile ducts where choledochoduodenostomy or hepaticoduodenostomy is impossible. The drain assures the flow of bile and prevents stenosis of the newly formed passage. It is necessary that the ends of the drain be firmly sutured to the duct walls, for if it slips out during the granulation process, obliteration of the passage results. He found omentum and segments of veins the best covering. The tissues soon degenerated into scar tissue, which, in shrinking, shortened the defect, drawing the duodenum toward the liver. The inner surface of the tube of scar tissue became covered with epithelium. Further studies must determine how long it is necessary for the rubber drain to remain in place, but these experiments have emphasized the desirability of its remaining as long as possible.

Hydrocele and Workmen's Compensation.—Scheele studied the evidence in 133 cases of alleged traumatic origin or aggravation of hydrocele. Because of its mobility, force applied directly to the testicle must possess a certain suddenness if it is to cause injury. Although the hydrocele itself may not form until two or three months have elapsed and external signs of injury have disappeared, the immediate subjective results of the injury are severe. If these immediate results are lacking in the history, suspicion is cast on the traumatic origin. The most frequent consequence of trauma to the testicle is hematoma outside the vaginalis; this may lead to hematoma within the vaginalis, which in turn may lead through irritation from hemorrhagic remains or traumatic periorchitis to hydrocele. Hematoma within the vaginalis however is rare, except where hydrocele already exists. Hydrocele caused by indirect force, such as strains in lifting, jumping backward or slipping when carrying a heavy burden, is rare, but possible. When infection of the testicle or

epididymis exists at the time of the accident, the question of traumatic origin of the hydrocele becomes more complicated, for hydrocele may develop in local infection without trauma; on the other hand, the trauma may be responsible for aggravation of the original condition, which might not otherwise have led to hydrocele. A large hydrocele is continually exposed to trauma. Injury may make the condition worse or introduce complications, but in considering the question from the compensation angle, the possibilities in the natural course of the trouble, such as hemorrhagic periorchitis and spontaneous rupture of the wall, must be remembered.

Klinische Wochenschrift, Berlin

5: 777-824 (April 30) 1926

Intrapulmonary Pressure and the Circulation. Bürger.—p. 777. C'td.
*Arteriovenous Fistula. H. Eppinger et al.—p. 781.
*Invisible and Uncultivable Bacilli. E. Friedberger.—p. 782.
*Inhibiting Culture Broth. E. G. Dresel.—p. 789.
*Ions in Growing Bone. W. Stoye.—p. 791.
*Epizootics in Mice. T. Okamoto.—p. 795.
Pregnancy and Diagnosis of Sex. H. Kleesattel.—p. 796.
"Haff Disease." F. Dörbeck.—p. 799.
Fatigability of Pupil Reflexes. E. Schlesinger.—p. 799.
Acid, Alkali and Insulin. G. Hetényi.—p. 800.
Roentgen Ray Leukoderma. H. Wachtel.—p. 800.
Tumor or Tuberculosis of Lungs. R. Lenk.—p. 801.
Birth Injury and Brain Disease. F. Wohlwill.—p. 805. C'td.

Arteriovenous Intercommunication.—Eppinger, Kisch and Schwarz connected the abdominal aorta and vena cava in cats by a tube which could be closed. After opening the connection, the arterial pressure dropped by 40 mm. of mercury; the pulse increased by 14 beats per minute and the volume of the single beat increased by 0.96 cc. in one of their experiments. With this short-circuiting of the blood stream, in spite of the lowered peripheral resistance and arterial pressure, the heart has to perform more work because of the increased output.

Invisible and Uncultivable Bacilli.—Friedberger points out that the isolation of germs rarely succeeds in the beginning of epidemics. The findings are usually negative in the first cases of cholera and influenza. He explains this by the possibility that the real infection is caused by an uncultivable and filtrable form of the germ. The known visible forms develop later and are less virulent. Three years ago he was able to change typhoid bacilli into such a form which produced infection in guinea-pigs and which was far more potent in immunization than heated cultures. Similar experiments have been reported recently with tuberculosis bacilli. If the filtrability of the tuberculous virus had been detected previously to Koch's discovery, the acknowledgment of the visible forms as causative agents would have been delayed, just as has been the case with scarlet fever streptococci. He finds increasing evidence as to the etiologic significance of the Weil-Felix bacillus for typhus fever. He points to the epidemiologic significance of these data, and sees a true nucleus in Pettenkofer's theory of the necessity of some sort of ripening of the germs before they become infectious.

Inhibiting Culture Bouillon.—Dresel treated broth with 10 per cent of its weight of charcoal. The medium became acid and the growth of pathogenic germs was strongly inhibited. He regards this change of reaction as a valuable addition to the absorbing power of the charcoal.

Ions in Growing Bones.—Stoye describes a method for histochemical demonstration of soluble phosphates in growing bones. They are localized in the form of a narrow transverse band in the zone of cartilaginous cells.

Epizootics in Mice.—Okamoto observed among animals several instances of activation of a latent infection by accidental agents. Such was the case with certain mice infected with sublethal doses of mouse-typhoid. Injection of the homologous bacteriophage was the provoking factor. Injection of organ extracts from rabbits awakened a latent paratyphoid B infection in guinea-pigs. Some female guinea-pigs died after labor under symptoms of grave diplococcus septicemia. The male animals injected with the germs seemed resistant until a sudden frost set in. The next day five out of eight males that had been infected previously developed the same symptoms as the females.

Monatsschrift für Kinderheilkunde, Leipzig

32: 1-96 (April) 1926

*Digitalis. B. Samet and O. Tezner.—p. 1.
Puberty Metabolism. O. Göttche.—p. 22.
Ferments in Infant's Stomach. K. Waltner.—p. 37.
*Concentrated Buttermilk. H. Weil.—p. 40.

Digitalis.—Samet and Tezner tested the action of digitalis on healthy and sick children without insufficiency of the heart. Healthy children are as a rule comparatively resistant. In some of the pneumonia patients smaller doses produced arrhythmia. They do not attempt to decide whether its use is beneficial in pneumonia or not, but emphasize the necessity for continuous control, if it is administered.

Concentrated Buttermilk.—Weil reports good results with a concentrated food consisting of buttermilk with addition of 2 per cent flour and 13 per cent sugar. It is advisable for infants who have little appetite or drink badly, and especially with intolerance of fat, nervous vomiting or pylorospasm. The mixture contains about 100 calories per hundred grams. Consequently 100 Gm. per kilogram of body weight is sufficient food for a healthy infant.

Zeitschrift für Tuberkulose, Leipzig

45: 1-94 (April) 1926

*Primary Infiltration. F. Redeker.—p. 1.
Serial Sedimentation Tests in Diagnosis of Tuberculosis. Büchler and Nobel.—p. 7.
Tuberculin Sensitiveness and Action. H. Selter.—p. 11.
*Tuberculosis in Schools. K. A. Worringen.—p. 27.
"Myopia and Tuberculosis." G. Hirsch.—p. 32.
*"Wassermann's Tuberculosis Antigen." M. Pinner.—p. 34.
"Paralysis of Diaphragm." Hauke.—p. 38.

Primary Infiltration.—Redeker describes the clinical and especially the roentgenologic aspects of primary tuberculous lesions of lungs. A perifocal inflammation is the rule. It spreads toward the hilum, but it is most pronounced at both ends ("bipolar").

Tuberculosis in Schools.—Worringen concludes that school predisposes to the infection by lowering the resisting powers of the children. Four hours a day should be the maximum for elementary schools, and five hours for the upper grades, and no home work. Daily gymnastics are as essential as brushing the teeth and washing.

"Wassermann's Tuberculosis Antigen."—Pinner emphasizes that nearly all the active substances of the Wassermann tuberculosis antigen are soluble in alcohol. Divergent opinions of other authors are due only to the variations in the antigen and to the inaccurate methods they used.

Svenska Läkaresällskapets Handlingar, Stockholm

51: 207-237 (Dec. 31) 1925

*Treatment of Hemophilia. H. v. Samson-Himmelstjerna.—p. 207.
The Filament Galvanometer and the Measurement of the Heart's Action Current. W. Einthoven.—p. 213.
Actinomycosis; Two Cases of Foreign Body in Floor of Mouth. S. Norlén.—p. 227.

Nature of Hemophilia and Causal Treatment.—The treatment proposed is based on the familiar fact that hemophilia skips the female link in its transmission. It seems logical, therefore, to utilize in treatment the sex hormone that distinguishes the female. There seem to be waves of more or less pronounced preparedness for hemorrhages, explaining the periodicity of the tendency to bleed. Instances are known in which a change to a tropical or mountain climate has arrested this tendency. The influence of sunlight may explain this; the skin of certain bleeders seems to be abnormally delicate. Injection of blood probably owes its efficacy to protein shock; this may be the explanation of the beneficial effect of roentgen irradiation of the spleen, or injection of own blood. It might be possible to realize a shock treatment by way of the mouth. Everything points to the assumption that hemophilia is due to the occasional or periodic formation of a substance which damages the vessels. Ovarian extract (from cows), heliotherapy and shock treatment form a threefold mode of attacking hemophilia. There does not seem to be any danger from this artificial hermaphroditization with ovarian extract in males. No attempts to treat hemophiliacs on this basis have been tried, but it is advocated as theoretically rational.

JOURNALS ABSTRACTED IN THE CURRENT MEDICAL LITERATURE DEPARTMENT, JANUARY-JUNE 1926

Abstracts of important articles in the following journals have been made in the Current Literature Department of THE JOURNAL during the past six months. Any of the journals, except those starred, will be lent by THE JOURNAL to subscribers in the United States and to Fellows of the American Medical Association for a period not exceeding three days. Two journals may be borrowed at a time. No foreign journals are available prior to 1921, nor domestic journals prior to 1923. Requests for periodicals should be addressed to the Library of the American Medical Association and six cents in stamps should be enclosed. This covers the average expense of mailing a journal. Thus most of these journals are accessible to the general practitioner.

Acta Chirurgica Scandinavica. Irreg. 20 Swedish crowns. Stockholm.
Acta Medica Scandinavica. Irreg. $5.50 per vol. Stockholm.
Acta Pædiatrica. Irreg. $5 per vol. Stockholm.
Acta Tuberculosea Scandinavica. Irreg. $6 per vol. Copenhagen.
American Heart Journal. Bi-m. $7.50. St. Louis.
American Journal of Anatomy. Bi-m. $7.50 per vol. Philadelphia.
*American Journal of Diseases of Children. M. $4. A. M. A., Chicago.
American Journal of Hygiene. Bi-m. $6. Baltimore.
American Journal of the Medical Sciences. M. $6. Philadelphia.
American Journal of Obstetrics and Gynecology. M. $8.50. St. Louis.
American Journal of Ophthalmology. M. $12. Chicago.
American Journal of Pathology. Bi-m. $5. Boston.
American Journal of Physiology. M. $6 per vol. Baltimore.
American Journal of Psychiatry. Q. $5 per vol. Baltimore.
American Journal of Public Health. M. $5. New York.
American Journal of Roentgenology and Radium Therapy. M. $10. New York.
American Journal of Syphilis. Q. $10. St. Louis.
American Journal of Tropical Medicine. Bi-m. $5 per vol. Baltimore.
American Review of Tuberculosis. M. $8 per vol. New York.
Anales de la Facultad de Medicina, Universidad de Lima. Irreg. 1.50 sol.
Anales de la Facultad de Medicina, Universidad de Montevideo. M. 6 pesos.
*Anales de Sociedad Médico-Quirúrgica del Guayas. M. $0.60 per issue. Guayaquil.
Annales d'Anatomie Pathologique. M. 65 francs. Paris.
Annales de l'Institut Pasteur. M. 70 francs. Paris.
Annales des Maladies Vénériennes. M. 70 francs. Paris.
Annales de Médecine. M. 60 francs. Paris.
Annals of Clinical Medicine. M. $7. Baltimore.
Annals of Medical History. Q. $8. New York.
Annals of Otology, Rhinology and Laryngology. Q. $6. St. Louis.
Annals of Surgery. M. $10. Philadelphia.
Annals of Tropical Medicine and Parasitology. Irreg. £1 2s. 6d. per vol. Liverpool.
Archiv für Gynäkologie. Irreg. Price varies. Berlin.
Archiv für Kinderheilkunde. Irreg. 20 gold marks per vol. Stuttgart.
Archiv für Klinische Chirurgie. Irreg. Price varies. Berlin.
Archiv für Psychiatrie. Irreg. Price varies. Berlin.
Archiv für Schiffs- und Tropenhygiene. M. 12.90 marks per half year. Leipzig.
Archiv für Verdauungs-Krankheiten. Irreg. 28 marks per vol. Berlin.
*Archives of Dermatology and Syphilology. M. $8. A. M. A., Chicago.
Archives of Disease in Childhood. Bi.-m. 25s. London.
Archives Franco-Belges de Chirurgie. M. 80 francs. Brussels.
Archives de l'Institut Pasteur de Tunis. Q. Tunis.
*Archives of Internal Medicine. M. $5. A. M. A., Chicago.
*Archives Internationales de Médecine Expérimentale. Q. 100 francs. Liége.
Archives des Maladies de l'Appareil Digestif et de la Nutrition. Monthly except August and September. 65 francs. Paris.
Archives des Maladies du Cœur, des Vaisseaux et du Sang. M. 60 francs. Paris.
Archives de Médecine des Enfants. M. 60 francs. Paris.
*Archives of Neurology and Psychiatry. M. $8. A. M. A., Chicago.
Archives of Ophthalmology. Bi-m. $6. New York.
*Archives of Otolaryngology. M. $6. A. M. A., Chicago.
*Archives of Pathology. M. $6. A. M. A., Chicago.
Archives of Physical Therapy. M. $5. Omaha.
*Archives of Surgery. M. $8. A. M. A., Chicago.
Archivio Italiano di Chirurgia. Irreg. 100 lire per vol. Bologna.
*Archivio Italiano di Dermatologia. Irreg. 100 lire. Bologna.
Archivio Italiano di Urologia. Bi-m. 100 lire. Bologna.
*Archivos Argentinos de Enfermedades del Aparato Digestivo. Bi-m. 20 pesetas. Buenos Aires.
*Archivos Españoles de Enfermedades del Aparato Digestivo y de la Nutrición. M. 21 pesetas. Madrid.
Archivos Españoles de Pediatria. M. 25 pesetas. Madrid.
Archivos Latino-Americanos de Pediatria. M. $5. Buenos Aires.
*Arkhiv Biologicheskikh Nauk. Semi-a. 6 rubles. Moscow.
*Arquivos Indo-Portugueses de Medicina. Irreg. Nova Goa.
*Arquivos do Instituto Bacteriológico Camara Pestana. Irreg. Lisbon.
*Ars Medica. M. 25 pesetas. Barcelona.
Atlantic Medical Journal. M. $3. Harrisburg.
Australian Journal of Experimental Biology and Medical Science. Q. £1 1s. Adelaide.
Beiträge zur klinischen Chirurgie. Irreg. Price varies. Berlin.
Biochemical Journal. Irreg. $14.25. London.
*Boletín del Instituto de Clínica Quirúrgica. Irreg. Buenos Aires.
*Boletín de la Sociedad de Cirugia de Chile. Irreg. 20 pesos. Santiago.
*Boletín de la Sociedad de Obstetricia y Gynecologia de Buenos Aires. Irreg. $5 per vol.
Boston Medical and Surgical Journal. W. $6.
Brain, A Journal of Neurology. Irreg. 24s. London.
Brazil-Medico. W. $5. Rio de Janeiro.
Bristol Medico-Chirurgical Journal. Q. 3s. per issue.
British Journal of Anæsthesia. Q. $10. Manchester.
British Journal of Children's Diseases. Q. 25s. London.
British Journal of Dermatology and Syphilis. M. 2 guineas. London.
British Journal of Experimental Pathology. Bi-m. £2. London.
British Journal of Medical Psychology. Q. 30s. per vol. London.
British Journal of Ophthalmology. M. 2 guineas. London.
British Journal of Radiology. M. £2 2s. London.
British Journal of Surgery. Q. $10. Bristol.
British Journal of Tuberculosis. Q. $2.50. London.
British Medical Journal. W. 1s. 3d. per issue. London.
*Bruxelles Médical. W. 45 francs. Brussels.
Bulletin de l'Académie de Médecine. W. 65 francs. Paris.
Bulletin de l'Académie Royale de Médecine de Belgique. M. 4 francs. Brussels.
Bulletin of the Johns Hopkins Hospital. M. $3 per vol. Baltimore.
Bulletin Médical. Semi-w. 28 francs. Paris.
*Bulletin de la Société des Sciences Médicales et Biologiques de Montpellier. Irreg.
Bulletins et Mémoires de la Société Médicale des Hôpitaux de Paris. W. 80 francs. Paris.
Calcutta Medical Journal. M. Calcutta.
California and Western Medicine. M. $5. San Francisco.
Canadian Medical Association Journal. M. $6. Montreal.
Časopis Lékařů Českých. W. 170 kč. Prague.
China Medical Journal. M. $10 Mex. Shanghai.
Chirugia degli Organi di Movimento. Irreg. 100 lire. Bologna.
*Clinica. M. Montevideo.
*Clinica Medica Italiana. Bi-m. 42 lire. Milan.
Clinique. Bi-m. 40 francs. Paris.
Colorado Medicine. M. $2.50. Denver.
Comptes Rendus des Séances de la Société de Biologie et de ses Filiales. W. 90 francs. Paris.
Crónica Médica. M. $4. Lima, Peru.
Dermatologische Wochenschrift. W. 15.25 marks per quarter. Leipzig.
Deutsche Medizinische Wochenschrift. W. 9.80 marks per quarter. Leipzig.
Deutsche Zeitschrift für Chirurgie. Irreg. 24 marks per vol. Leipzig.
Deutsches Archiv für Klinische Medizin. Irreg. 20 marks per vol. Leipzig.
Edinburgh Medical Journal. M. 40s.
Encéphale. M. 90 francs. Paris.
Endocrinology. Bi-m. $6. Los Angeles.
Finska Läkaresällskapets Handlingar. M. 150 Finnish marks. Helsingfors.
Gaceta Médica de Caracas. Semi-m. 24 bolivares. Caracas, Venezuela.
*Gaceta Medica de Mexico. Irreg. 1 peso per issue. Mexico City.
Gann. Q. Tokyo.
Giornale Italiano de Dermatologia e Sifiliologia. Bi-m. 100 lire. Milan.
Glasgow Medical Journal. M. 30s.
*Grèce Medicale. M. 25 francs. Athens.
Gynécologie et Obstétrique. M. 95 francs. Paris.
Heart. Irreg. 37s. 6d. per vol. London.
Hospitalstidende. W. 30 Danish crowns. Copenhagen.
Hygiea. Semi-m. 24 Swedish crowns. Stockholm.
Illinois Medical Journal. M. $3. Oak Park.
Indian Journal of Medical Research. Q. £1 1s. 4d. Calcutta.
Indian Medical Gazette. M. Rs. 18. Calcutta.
Indian Medical Record. M. 7 Rs. 8 annas. Calcutta.
International Journal of Psycho-Analysis. Q. $7. London.
Irish Journal of Medical Science. M. £1 5s. Dublin.
Jahrbuch für Kinderheilkunde und Physische Erziehung. M. 18 marks. Berlin.

W.—Weekly; Semi-w.—Semi-weekly; Tri-w.—Tri-weekly; M.—Monthly; Semi-m.—Semi-monthly; Bi-m.—Bi-monthly; Q.—Quarterly; Semi-a.—Semi-annually.

*Cannot be loaned.

Japan Medical World (Nippon-No-Ikai Sha). M. $6. Tokyo.
Journal of Anatomy. Q. $10.75 per vol. London.
Journal of the Arkansas Medical Society. M. $3. Little Rock.
Journal of Bacteriology. M. $5 per vol. Baltimore.
Journal of Biochemistry. Q. $5.50 per vol. Tokyo.
Journal of Biological Chemistry. M. $5 per vol. New York.
Journal of Bone and Joint Surgery. Q. $5. Boston.
Journal of Cancer. Q. 10s. 6d. Dublin.
Journal de Chirurgie. M. 110 francs. Paris.
Journal of Clinical Investigation. Bi-m. $5 per vol. Baltimore.
Journal of Comparative Neurology. Bi-m. $7.50 per vol. Philadelphia.
Journal of Comparative Psychology. Bi-m. $5 per vol. Baltimore.
Journal of Experimental Medicine. M. $10. New York.
Journal of the Florida Medical Association. M. $3. Jacksonville.
Journal of General Physiology. Bi-m. $5. New York.
Journal of Hygiene. Q. $10. London.
Journal of Immunology. Bi-m. $5 per vol. Baltimore.
Journal of the Indiana State Medical Association. M. $3. Fort Wayne.
Journal of Industrial Hygiene and Abstract of Literature. M. $6. Boston.
Journal of Infectious Diseases. M. $5. Chicago.
Journal of Iowa State Medical Society. M. $3. Des Moines.
Journal of Kansas Medical Society. M. $2. Topeka.
Journal of Laboratory and Clinical Medicine. M. $8.50. St. Louis.
Journal of Laryngology and Otology. M. 40s. Edinburgh.
Journal of Maine Medical Association. M. $2. Portland.
Journal of Medical Association of Georgia. M. $3. Atlanta.
Journal of Medical Society of New Jersey. M. $3. Orange.
Journal Mental Science. Q. 30s. London.
Journal of Michigan State Medical Society. M. $5. Grand Rapids.
Journal of Missouri State Medical Association. M. $3. St. Louis.
Journal of Nervous and Mental Diseases. M. $10. New York.
Journal of Obstetrics and Gynæcology of the British Empire. Q. 2 guineas. Manchester.
*Journal of Okayama Medical Society. M. Okayama.
Journal of Oklahoma State Medical Association. M. $4. Muskogee.
*Journal of Oriental Medicine. Bi-m. Dairen, South Manchuria.
Journal of Parasitology. Q. $3. Urbana.
Journal of Pathology and Bacteriology. Q. 40s. Edinburgh.
Journal of Pharmacology and Experimental Therapeutics. M. $6. Baltimore.
Journal of the Philippine Islands Medical Association. M. $6. Manila.
Journal of Physiology. Irreg. Price varies. London.
Journal des Praticiens. W. $2.25. Paris.
Journal de Radiologie et d'Electrologie. M. 80 francs. Paris.
Journal of South Carolina Medical Association. M. $3. Greenville.
Journal of State Medicine. M. 2s. per issue. London.
Journal of Tennessee State Medical Association. M. $2. Nashville.
Journal of Tropical Medicine and Hygiene. Semi-m. 30s. London.
Journal d'Urologie Médicale et Chirurgicale. M. 80 francs. Paris.
Journal of Urology. M. $4. Baltimore.
Kentucky Medical Journal. M. $5. Bowling Green.
*Kenya Medical Journal. M. 21s. Nairobi.
Klinische Wochenschrift. W. 7.50 marks per quarter. Berlin.
Lancet. W. $12. London.
Laryngoscope. M. $6. St. Louis.
Liége Médical. W. 25 francs.
Lisboa Médica. M. 80 milreis. Lisbon.
Lyon Chirurgical. Bi-m. 70 francs. Paris.
Lyon Médical. W. 30 francs.
*Marseille-Medical. 3 issues per month. 40 francs.
Médecine. M. 26 francs. Paris.
Mededeelingen van Dienst der Volksgezondheid in Nederlandsch-Indië. Irreg. Batavia.
Medical Journal and Record. Semi-m. $6. New York.
Medical Journal of Australia. W. £2 5s. Sydney.
Medical Journal of South Africa. M. £1 5s. Johannesburg.
*Medicina. M. $4-Mex. Mexico City.
Medicina Contemporanea. W. Lisbon.
Medicina Ibera. W. 40 pesetas. Madrid.
Medicine. Q. $5 per vol. Baltimore.
Medizinische Klinik. W. 9.50 gold marks per quarter. Berlin.
Memorias do Instituto Oswaldo Cruz. Irreg. 20 reis per issue. Rio de Janeiro.
Mental Hygiene. Q. $3. Albany.
Military Surgeon. M. $4. Washington.
*Minerva Medica. Irreg. 60 lire. Turin.
Minnesota Medicine. M. $3. St. Paul.
Mitteilungen aus den Grenzgebieten der Medizin und Chirugie. Irreg. Jena.
Monatsschrift für Geburtshülfe und Gynäkologie. M. 18 marks per vol. Berlin.
Monatsschrift für Kinderheilkunde. M. 32 marks per vol. Leipzig.
Münchener Medizinische Wochenschrift. W. $9.20. Münich.
National Medical Journal of China. Bi-m. $2.50. Shanghai.
Nebraska State Medical Journal. M. $2.50. Lincoln.
Nederlandsch Maandschrift voor Geneeskunde. M. 16 florins. Leiden.
Nederlandsch Tijdschrift voor Geneeskunde. W. 29 florins. Haarlem.
New Orleans Medical and Surgical Journal. M. $3.
New York State Journal of Medicine. Semi-m. $3.50. New York.
Norsk Magazin for Lægevidenskaben. M. 30 Swedish crowns. Oslo.
Northwest Medicine. M. $2. Seattle.
Nourrisson. Bi-m. 36 francs. Paris.
Ohio State Medical Journal. M. $3. Columbus.
*Oriental Journal of Diseases of Infants. Q. Kyoto.
Paris Médical. W. 55 francs.
*Patalojia Geral. Bi-m. $3. Rio de Janeiro.
Pediatria. Semi-m. 80 lire. Naples.
*Pediatria-Archivio di Patologia e Clinica Pediatrica. Irreg. 160 lire per vol. Naples.
*Pediatria Española. M. 15 pesetas. Madrid.
Philippine Journal of Science. M. $5. Manila.
Physical Therapeutics. M. $5. Baltimore.
Policlinico (sez chir.) and (sez. med.). M. 50 lire each; (sez. prat.). W. 100 lire. Rome.
*Practica Pediatrica. M. 15 lire. Turin.
Practitioner. M. 2 guineas. London.
Presse Médicale. Semi-w. 80 francs. Paris.
Progrès Médical. W. 70 francs. Paris.
Prophylaktitcheskaia Medicina. M. 12 rubles. Kharkov.
Public Health Journal. M. $2. Toronto.
Quarterly Journal of Experimental Physiology. Price varies. London.
Quarterly Journal of Medicine. 35s. London.
Quarterly Review of Biology. Q. $5. Baltimore.
Radiology. M. $5. St. Paul.
Repertorio de Medicina y Cirugía. M. $4. Bogota, Colombia.
Revista de la Asociación Médica Argentina (including 8 special sections). M. 20 pesos. Buenos Aires.
*Revista de Asociacion Medica Mexicana. Bi-m. Mexico City.
*Revista del Círculo Médico de Córdoba. Bi-m. 10 pesos.
*Revista de Cirugía. Bi-m. 20 pesos. Buenos Aires.
*Revista de Criminologia Psiquiatria y Medicina-Legal. Bi-m. $5. Buenos Aires.
Revista Española de Medicina y Cirugía. M. 26 pesetas. Barcelona.
*Revista Española de Urologia y Dermatologia. M. Madrid.
*Revista Médica de Barcelona. M. 40 pesetas.
*Revista Médica Latino-Americana. M. 12 pesos. Buenos Aires.
Revista Médica del Rosario. Bi-m. 10 pesos. Rosario, Argentina.
Revista Médica del Uruguay. M. 8 pesos. Montevideo.
*Revista Medica Veracruzana. M. Vera Cruz.
*Revista Médica de Yucatán. Bi-m. $2. Merida.
*Revista de Medicina y Cirugía. M. 15 bolivares. Caracas.
Revista de Medicina y Cirugía de la Habana. Semi-m. $4.50. Havana.
Revista de la Sociedad Argentina de Biologia. Bi-m. 20 pesos. Buenos Aires.
Revita de la Sociedad Argentina de Neurologia y Psiquiatria. Bi-m. 20 pesos. Buenos Aires.
Revista de la Sociedad Argentina de Urologia. Bi-m. 20 pesos. Buenos Aires.
Revue de Chirurgie. M. 70 francs. Paris.
Revue Française d'Endocrinologie. Bi-m. 35 francs. Paris.
Revue Française de Gynécologie et d'Obstétrique. M. 50 francs. Paris.
Revue Française de Pediatrie. Bi-m. 45 francs. Paris.
Revue de Médecine. M. 70 francs. Paris.
Revue Médicale de la Suisse Romande. 14 issues yearly. 22 francs. Lausanne.
*Revue Neurologique. M. 90 francs. Paris.
*Revue de Pathologie Comparée. Bi-m. 35 francs. Paris.
Rhode Island Medical Journal. M. $2. Providence.
Riforma Medica. W. 100 lire. Naples.
Rivista di Clinica Pediatrica. M. 80 lire. Florence.
*Russkaia Klinika. M. 14 rubles. Moscow.
*Santa Fé Médico. Bi-m. $6.
Schweizerische Medizinische Wochenschrift. W. 17.30 francs per half year. Basel.
Sei-I-Kwai Medical Journal. Bi-m. $2. Tokyo.
Semana Médica. W. $5. Buenos Aires.
South African Medical Record. Semi-m. 31s. 6d. Cape Town.
Southern Medical Journal. M. $4. Birmingham.
Southwestern Medicine. M. $2. Phoenix.
Surgery, Gynecology and Obstetrics with International Abstract of Surgery. M. $12. Chicago.
Svenska Läkaresällskapets Handlingar. Q. 18 Swedish crowns. Stockholm.
Texas State Journal of Medicine. M. $2.50. Fort Worth.
Tohoku Journal of Experimental Medicine. Bi-m. 8 yen per vol. Sendai.
Tubercle. M. 25s. London.
Tumori. Irreg. 75 francs. Rome.
Ugeskrift for Læger. W. 30 Danish crowns plus postage. Copenhagen.
*Union Médicale du Canada. M. $3.50. Montreal.
United States Naval Medical Bulletin. Q. $.75. Washington.
United States Veterans' Bureau Medical Bulletin. M. Washington.
*Vestnik Microbiologii i Epidemiologii. Q. 6 rubles. Saratov.
*Vestnik Roentgenologii i Radiologii. Bi-m. 12 rubles. Leningrad.
Virginia Medical Monthly. M. $2. Richmond.
West Virginia Medical Journal. M. $3.50. Huntington.
Wiener Archiv für Innere Medizin. Irreg. Price varies. Berlin.
Wiener Klinische Wochenschrift. W. 5.60 marks per quarter. Vienna.
Wisconsin Medical Journal. M. $3.50. Milwaukee.
Zeitschrift für die gasamte Neurologie und Psychiatrie. Irreg. Price varies. Berlin.
Zeitschrift für Geburtshülfe und Gynäkologie. Irreg. Price varies. Stuttgart.
Zeitschrift für Kinderheilkunde. Irreg. Price varies. Berlin.
Zeitschrift für Klinische Medizin. Irreg. Price varies. Berlin.
Zeitschrift für Krebsforschung. Irreg. Price varies. Berlin.
Zeitschrift für Tuberkulose. Irreg. 26 marks per vol. Leipzig.
Zeitschrift für Urologie. M. 32 marks. Leipzig.
Zeitschrift für Urologische Chirurgie. Irreg. Price varies. Berlin.
Zentralblatt für Chirurgie. W. 15.60 marks per quarter. Leipzig.
Zentralblatt für Gynäkologie. W. 15.60 marks per quarter. Leipzig.
Zentralblatt für Innere Medizin W. 11.50 marks per quarter. Leipzig.

W.—Weekly; Semi-w.—Semi-weekly; Tri-w.—Tri-weekly; M.—Monthly; Semi-m.—Semi-monthly; Bi-m.—Bi-monthly; Q.—Quarterly; Semi-a.—Semi-annually.
*Cannot be loaned.

SUBJECT INDEX

This is an index to all the reading matter in THE JOURNAL. In the Current Medical Literature Department only the articles which have been abstracted are indexed.

The letters used to explain in which department the matter indexed appears are as follows: "E," Editorial; "C," Correspondence; "MI," Medicolegal; "P," Propaganda for Reform; "ME," Medical Economics; "ab," abstract; the star (*) indicates an original article in THE JOURNAL.

This is a subject index and one should, therefore, look for the subject word, with the following exceptions: "Book Notices," "Deaths" and "Society Proceedings" are indexed under these titles at the end of the letters "B," "D" and "S." State board examinations are entered under the general heading State Board Reports, and not under the names of the individual states. Matter pertaining to the Association is indexed under "American Medical Association." The name of the author, in brackets, follows the subject entry.

For author index see page 2058.

A

ABDERHALDEN REACTION: See also Cancer, serodiagnosis
modified, [Herzfeld & others] 237—ab
ABDOMEN, acute, reflexes in, [Mondolfo] 586—ab
acute, diagnosis by puncture, [Neuhof & Cohen] 2001—ab
Adhesions: See under Adhesions
diagnosis of disease in, vs. tenderness of skin, [Strecker] 918—ab
diseases, Head's zones in, [Gaza] 1406—ab
foreign body in, swab, 211
injuries causing disease in, 290
injury, intestinal rupture from, [Crook] 302—ab
laparotomy, anesthesia in, [Mason] 2001—ab
laparotomy, drainage after, [Pohl] 1588—ab
laparotomy, lumbar, [Lichtenberg] 159—ab
laparotomy, Pfannenstiel's transverse incision, [Sarwey] 1811—ab
migraine with abdominal equivalent, [Blitzstein & Brams] *675
pain in, chronic, in children, [Toverud] 1661—ab
puncture, [Neuhof & Cohen] 2001—ab
roentgen study, gastric air bubble deformed, [Buckstein] *1834
spasms and metabolism, [Alessandrini] 1171—ab
surgery, [Gutierrez] 1943—ab
surgery, general vs. local anesthesia in, [Mason] 374—ab, 2001—ab
surgery, pancreas reaction to, [Walzel] 520—ab
wall, paragonimus cyst, [Choy & Ludlow] 1945—ab
ABEL, JOHN J., crystalline insulin, 350—E
ABNORMALITIES: See also under names of organs and regions
congenital, [Thorek] *33; [Mills & Walpert] 978—ab
congenital; acrocephalosyndactylism, [de Bruin] 456—ab
congenital, in 4 generations, [Trauner & Rieger] 520—ab
ABORIGINES, Australian, proposed model native state, 1636
Australian, blood grouping of, [Cleland] 1728—ab
ABORTION, artificial, from eugenic indications, 639
criminal, in Germany, 888
criminal, lack of license as evidence, 1574—MI
criminal, proof of other operations admissible, 1574—MI
criminal, tetanus after, [Schneider] 918—ab
criminal, with air embolism, [Hulst] 1679—ab
dangers from syringe for inducing, [Fog] 1176—ab
experiences with, [Van Dongen] 318—ab
habitual, [Novak] 1878—ab
in uterus septus, [Falk] 1669—ab
induced by fright, liability, 372—MI
moral aspects, [Vogtherr] 1104—ab
therapeutic, in syphilis, [Buschke & Gumpert] 1104—ab
treatment, vs. streptococcic virulence, [Kuster] 919—ab
ABSCESS: See also under names of organs and regions
after bismuth metal (neotrepol) intramuscularly, [Sutton] *346; [Grund] 644—C
alveolar, [Harrison] 1868—ab
fixation, antitoxic titer increased by, [Pico & Ferrari] 74—ab
fixation, cures septicemia, [Villaret & others] 1664—ab
fixation, fatal, [Comby] 1948—ab
fixation, in sepsis treatment, [Jacob & Wendt] 1407—ab
fixation, turpentine, [Comby] 1168—ab
in postoperative scars, [Fisher & Stone] *1675
ischiorectal, and tuberculosis, [Clarke] 1400—ab
retroperitoneal pelvic, in male, [Nielsen] *683

ABSCESS—Continued
subphrenic, [Dexter] 579—ab
subphrenic, with vomited gallbladder, [Fernström] 730—ab
ABSORPTION from lower respiratory tract, [Corper] *1739
ACACIA and intravenous injections, 556—E
ACADEMY OF LYNXES, opening academic year at, 885
ACCADEMIA D'ITALIA, created, 1228
ACCIDENTS: See also Electricity, accidents; Industrial accidents; Trauma; Workmen's Compensation
Automobile: See Automobile
charitable institution, liability of, 509—MI; 577—MI
coal mine, U. S., 962; 1633; 1846
damages, fear of miscarriage, 1095—MI
damages, medical fees, when a part of, 1095—MI
epilepsy, liability of employer, 1999—MI
fatal, in roentgen-ray laboratory, [Polgár] 1736—ab
metal mine, 699
negligence, injury to others as evidence, 1649—MI
prevention, England, 1636
safe and sane Fourth of July, 280—E
ACETABULUM, fracture, central, [Boorstein] *617
ACETANILID poisoning, [Young & Wilson] 1725—ab
ACETONE, in Urine: See Urine
ACHARD, CHARLES, in Japan, 1146
ACHONDROPLASIA, [Glaume] 1805—ab
ACHYLIA, gastric, unwarranted surgery in, [Fontaine] 1583—ab
ACID, acetic, poisoning, hemoglobinuria in, [Skłodowski] 156—ab
acetylsalicylic, hypersensitiveness to, [Cooke & Spain] 1721—ab
action on insulin, [Shonle & Waldo] 1246—ab
agaric, action of, research on, [Bergström] 234—ab
Amino: See Amino-Acids
Barbituric: See also Barbital
barbituric derivatives declared dangerous drugs, England, 1992
barbituric, hypnotics, [Nielsen & others] 307—ab
diacetic, plus four, 1643
ethylisopropylbarbituric; new hypnotic, [Jackson & Lurie] 150—ab
hydrochloric, in dyspepsias, [Apperly] 1947—ab
hydrocyanic, in shoe cleaning preparations, 1708
lactic, and muscular function, 1217—E
lactic, in leukorrhea treatment, [Naujoks & Behrens] 919—ab
oleic, stimulates biliary flow, [McClure & others] 149—ab
Uric: See Uric Acid
ACID BASE EQUILIBRIUM: See also Blood, reaction; Hydrogen Ion Concentration
alimentary anaphylaxis and, [Parisot & others] 1948—ab
effects of insulin and glucose on, in surgical diabetic patients, [Gibson] *1209
intestinal regulation of, [Löffler] 1173—ab
ACIDOSIS, chloride in, 752—E
diseased appendix causes, [Gray] 304—ab
in chronic nephritis, [Bulger & others] 1580—ab
in treatment of myositis, [Frölich] 1492—ab
ketosis and respiratory exchange in children, [Wilson & others] 1479—ab
polycythemia and, 1229
postoperative nondiabetic, [Fickenwirth] 318—ab
recurring, spinal fluid cholesterol in children with, [Garcia del Diestro] 235—ab
ACNE, 1563
treatment, [Sabouraud] 725—ab
vulgaris, gastric acidity in, [Knowles & Decker] 1316—ab
ACRIFLAVINE in infections, [Saxl & others] 1325—ab; [Tenney & Lintz] 1654—ab
in wound treatment, [Graftdijk] 238—ab
stains, removal, 1642
ACROCEPHALOSYNDACTYLISM: See Abnormalities, congenital
ACRODYNIA, erythredema or Swift's disease? [Warthin] 717—ab; 1132—E
ACROMEGALY, basal metabolism in, [Cestan & others] 1489—ab
diabetes mellitus and, [John] 1863—ab
ACTINOMYCES, cultures, [Bayne-Jones] 226—ab
ACTINOMYCOSIS in Venezuela, [Jiménez] 382—ab
of pleura, [Shoemaker] 1868—ab
treatment, iodine, [Chitty] 1320—ab
treatment, radium, [Heyderdahl] 983—ab
ACTINOTHERAPY: See Hellotherapy; Phototherapy; Ultraviolet Rays
ACUSECTOR: See Breast surgery
ADCOX, ROBERT, confession, 44; 121—E
freed of charges, 44
sentenced to jail, 424
ADDISON'S DISEASE, blood sugar curve in, [Chapman] 1249—ab
ADENITIS: See Glandular Fever; Lymph Nodes
ADENOCARCINOMA of cecum metastasizes to umbilicus, [Head] 1668—ab
ADENOCYSTOMA of ovary, [Phaneuf] *931
ADENOIDS, hemolytic streptococci in, [Pilot & Tumpeer] 977—ab
tuberculosis, primary, among Chinese, [Korns] 152—ab
ADENOMA: See also Cystadenoma
double, of prostate, [Ortiz & Gazzolo] 454—ab
hypophysial, [Dott & Bailey] 152—ab
of uterus cervix, [Douay & Soimaru] 1949—ab
ADENOMYOMA, ectopic, and ovarian function, [Graves] 148—ab
adenomyosis uteri, [Frankl] 148—ab
ADHESIONS, peritoneal, 278—E
postoperative, importance in pregnancy, [Moglia] 234—ab
ADOLESCENCE, characterization of puberty, [Biedl] 658—ab
epiphyseal coxa vara in, [Key] 806—ab
precocious menstruation, [Wheelon] 69—ab
precocious puberty, [Johnsen] *31, 892—C; [Fink] 892—C
problems of puberty, 499
ADRENALIN: See Epinephrine
ADRENALS: See Suprarenals
ADVERTISING of pharmaceutical preparations, Switzerland, 800
progress of state society journals, 489—E
AEROPHAGY, diathermy in, [Bordier] 452—ab
AFRICA, British Medical Association and colonial service, 564
AGE, Old: See Old Age
AGGLUTINATION affinities of abortus-melitensis group, [Orcutt] 1247—ab
hemagglutination, 1235
hemagglutinins in cancer, [Schiff] 1736—ab
interagglutination of maternal and fetal blood, [Cathala & Le Raslé] 234—ab; [Du Bouchet] 1252—ab; [Allen] 1656—ab
AGRANULOCYTOSIS: See Angina
AIR, fresh, and health, 495
compressed, causes sigmoid rupture, [Block & Weissman] *1597
in bladder, [Heuser] 1735—ab
smoke pollution of, vs. ultraviolet rays, 872—E
AIRPLANES: See Aviation
AKIYAMA caused by leptospira, [Koshina & others] 982—ab
ALASTRIM in Congo region, 1144
in Trinidad, 882
smallpox and vaccination, 1376
smallpox, chickenpox, and, 498
ALBERS-SCHONBERG'S DISEASE: See Osteosclerosis fragilis
ALBUMINURIA and renal vasoconstriction, [Starr] 1096—ab; 1134—E
idiopathic or "growth," [Calvin & others] *1822
in children, [Calvin & others] *1821
in new-born, [Faerber] 1173—ab
orthostatic, [Calvin & others] *1822
postoperative, [Schulze] 1667—ab
protein requirement in nephritis and, [Peters & Bulger] 1480—ab
ALBUMOSURIA, 1385

ALCOHOL: See also Prohibition; Whisky; Wines
action on stomach, [Leddig] 1171—ab
Amyl: See Fusel Oil
Benzyl: See Benzyl alcohol
denatured; whisky—then and now, 1771—E
drinking alcohol U.S.P., 505
injection for asthma, [Gundrum] 1244—ab
injection for gangrene, [Stradin] 1172—ab
injection for laryngeal tuberculosis pain, [Swetlow] 305—ab
injection for pleuritic pain, [Swetlow] 904—ab
injection for trigeminal neuralgia, [McKenzie] 225—ab; [Ruskin] 512—ab; [Sachs] 1318—ab; [Mills] 1320—ab
injection into nerves relieves pain, [Swetlow] 1796—ab
injection, paravertebral, for cardiac pain, [Swetlow & Schwartz] *1679
medicinal, prescribing, report of committee, 863
tax on, protest reduction, 208
tolerance to, 488—E
ALCOHOLISM: See also Moonshine
cholesteremia in, [Ornstein] 988—ab
guide to, [Southgate & Carter] 1484—ab
in children, [Obarrio] 1587—ab
problem of intoxicated motor driver, 1301
tests for, and British Medical Association, 496
ALDRICH-BLAKE, DAME LOUISA, 428
ALIMENTARY TRACT: See Gastro-Intestinal Tract
ALKALI, action on insulin, [Shonle & Waldo] 1246—ab
alkaline injection fluid, reaction, [Endres] 1103—ab
reserve, variations, [Ambard & others] 1100—ab
ALKALOIDS: See also Bulbocapnine; Heroin; Quinine; etc.
adsorption in pills, [Sabalitschka] 316—ab
changes in, on standing, [Mura & Petiti] 1253—ab
ALKALOSIS, control, in intestinal obstruction, [Portis & Portis] 902—ab
tetany and, [de Cursi] 1955—ab
ALKAPTONURIA, [Baar & Freud] 384—ab
ALLERGY: See Anaphylaxis
ALLONAL not acceptable for N. N. R., 1853—P
ALOPECIA areata of sympathetic and endocrine origin, [Herman] 1665—ab
generalized, 1386; [Wilson & Winkelman] *1424
prescription for, 1092
syphilitic, [Wile & Belote] 1724—ab
ALTITUDES, high, oxygen inhalation in, [Stern] 1325—ab
high, respiratory changes in, 1985—E
AMBARD'S COEFFICIENT: See Urea, coefficient
AMBOCEPTORS in scarlet fever, [Villa] 76—ab
AMBULANCE, airplane, transfer of casualties, England, 360
airplane, military, Japan, 1146
AMEBIASIS: See also Endamebiasis; Dysentery, amebic
treatment, emetine, [Deuskar] 1945—ab
urinary, [Fiessinger & Parturier] 1169—ab
AMERICAN ASSOCIATION FOR MEDICAL PROGRESS, 426; 1081
report on smallpox, 761; 1706
AMERICAN BOARD OF OPHTHALMIC EXAMINATIONS, 1559
AMERICAN BOARD OF OTOLARYNGOLOGY examinations, 881; 1300
AMERICAN COLLEGE OF PHYSICIANS, societies merge, 761
AMERICAN CONGRESS ON INTERNAL MEDICINE, societies merge, 761
AMERICAN HOSPITAL ASSOCIATION, new hospital headquarters, 1846
AMERICAN IDEALISM in public health, 1217—E
AMERICAN MEDICAL ASSOCIATION
Annual Congress on Medical Education, Medical Licensure and Hospitals, 203; 281—E; 629; 694; 756; 875; 956; 1077; 1135; 1218
Auditor's report, 860
Board of Trustees, 1925-1926, portraits, 1180
Board of Trustees, minutes of meeting, Feb. 19, '26, 693
Board of Trustees, report, 845; 1294; 1363
Board of Trustees report, report of Reference Committee on, 1358; 1362
Cancer Exhibit by Section on Dermatology and Syphilology, Dallas Session, 558
Committee for Protection of Medical Research, report, 862
Committee on Awards, Scientific Exhibit, report, 1366
Committee on Credentials, report, 1290; 1355
Committee on Disaster Relief, report, 864
Committee on Expert Opinion Advice, 1356
Committee on Legislation and Public Relations, supplementary report, 1364
Committee on Narcotic Drugs, report, 1295
Committee on Scientific Research, report, 861
Committee on Trachoma among Indians, report, 1296; 1444
Committee on Zinc Stearate, report, 1296
Committee to Cooperate with Commissioner of Internal Revenue and Secretary of Treasury, report, 863
AMERICAN MEDICAL ASSOCIATION—Cont'd
Conference on Periodic Health Examinations of Apparently Healthy Persons, 64; 143
Council on Medical Education and Hospitals, hospital service in U. S., 5th presentation of data, *1009; 1073—E
Council on Medical Education and Hospitals, hospitals approved for internship, *1056
Council on Medical Education and Hospitals, report, 866; 1295
Council on Medical Education and Hospitals report on active "correspondence" diploma mills, *1527
Council on Medical Education and Hospitals, schools offering summer courses, 1926, 1568
Council on Medical Education and Hospitals, state board statistics for 1925, *1533
Council on Physical Therapy, [Fishbein] *270
Council on Scientific Assembly, report, 868, 1295
Dallas hospitality, 1351—E
Dallas Session, 41; 203; 354; 422; 490; 558; 696; 763; 869; 958; 1078; 1137; 1180; 1290; 1355; 1441
Dallas: this is Dallas! Things that ought to be known about convention city, 765
delegates to dedication of Murphy Memorial, 1357
diagnostic clinics at Dallas, 958
Directory: what about you? 1916—E
dues, another colored slip in this issue, 202—E
educational exhibits, Dallas session, 782
election of honorary, affiliate and associate fellows, 1362
election of officers, 1360
entertainment, Dallas session, 778
exhibit hall, floor plan of, Dallas session, 797
exhibit on Tropical Medicine, Dallas session, 422
exhibitors, list of, Dallas session, 794
exhibits, Dallas session, 203; 354; 422; 558; 780; 782; 793; 1366
exhibits, scientific awards, 1366
exhibits of the A. M. A., Dallas session, 782
fellows, election of, 1362
fellowship, affiliate, 1359
fellowship and membership, 1715
hotel accommodations, Dallas, 41; 778
House of Delegates, address by Dr. Work, 1357
House of Delegates, address of Col. Seaman of Veterans' Bureau, 1359
House of Delegates, address of Speaker, Dr. Warnshuis, 1290
House of Delegates endorse bill coordinating public health activities, 1359
House of Delegates, minutes, 1290; 1355
House of Delegates please note regarding resolutions, 354
House of Delegates, preliminary roster, 763
Judicial Council, report, 865, 1294
Local Committee of Arrangements, Dallas session, 203
meeting places and general headquarters, Dallas session, 776
membership, 1715
motion picture theater, Dallas session, 783; 1078; 1367
nomination for standing committees, 1361
official call to officers, fellows and members, 763
pathologic and laboratory exhibits, Dallas session, 780
periodic health examinations, conference, 64; 143
periodic health examinations, practical demonstrations, Dallas session, 876; 1137; 1219
place of 1927 annual session, 1362
posters, food-calcium, 1714
posters, vitamins in foods, 1383
presentation of distinguished guests, 1363
President-Elect Jackson, presentation of, 1360
President-Elect Jackson, E—1353
President-Elect Phillips, address, 1293
President Haggard, address, 1292
Reference Committee on Amendments to Constitution and By-Laws, report, 1356; 1364
Reference Committee on Hygiene and Public Health, report, 1356; 1365
Reference Committee on Legislation and Public Relations, report, 1356
Reference Committee on Medical Education, report, 1355
Reference Committee on Miscellaneous Business, report, 1358
Reference Committee on Report of Board of Trustees and Secretary, report, 1358; 1362
Reference Committee on Reports of Officers, supplementary report, 1364
Reference Committee on Sections and Section Work, report, 1355
reference committees, 1291
registration at Dallas, 774; 1367
report on clinical laboratory service in United States, *1065; 1076—E
report on cosmetics, 1357
report on medical education, supplemental, 1357
resolution of thanks to Dallas, 1366
resolution on ad interim meeting, 1297
resolution on changes in premedical courses, 1296
resolution on medical legislation, 1353
AMERICAN MEDICAL ASSOCIATION—Cont'd
resolution on memory of Thomas A. McDavitt, 1294
resolution on official recognition of irregular practitioners, 1296
resolution on prescribing medicinal alcohol, 863
resolutions and amendments to be submitted at Dallas session, 869
resolutions on contract practice, 1297; 1356
resolutions on expert opinion evidence, 1296
resolutions on home for incapacitated practitioners, 1296
resolutions on trained nurses, 1296; 1355
Scientific Assembly, preliminary program, Dallas session, 784
Scientific Exhibit, Dallas session, 354; 780; 1366
Scientific Exhibit, Special Exhibits on Immunology and on Morbid Anatomy, 203
Secretary, report, 843; 1294
Secretary, report, report of Reference Committee on, 1358; 1362
Section on Dermatology and Syphilology, minutes, 1450
Section on Diseases of Children, minutes, 1447
Section on Gastro-Enterology and Proctology, minutes, 1453
Section on Laryngology, Otology and Rhinology, minutes, 1446
Section on Laryngology, Otology and Rhinology, report of committee on lye legislation, [Jackson & Chamberlin] *414
Section on Nervous and Mental Diseases, 1449
Section on Obstetrics, Gynecology and Abdominal Surgery, minutes, 1442
Section on Ophthalmology, minutes, 1443
Section on Orthopedic Surgery, minutes, 1452
Section on Pathology and Physiology, minutes, 1448
Section of Pharmacology and Therapeutics, minutes, 1448
Section on Practice of Medicine, minutes, 1441
Section on Preventive and Industrial Medicine and Public Health, minutes, 1451
Section on Radiology, minutes, 1454
Section on Surgery, General and Abdominal, minutes, 1441
Section on Urology, minutes, 1451
sections, meeting places and general headquarters, 776
sections, minutes, 1441
sections, programs of, Dallas session, 784
Simmons, Dr. George H., radiogram from, 1290
Simmons, Dr. George H., cablegram to, 1358
Talbot, Eugene, bust of, presented to, 1842
technical exhibits, Dallas session, 793
Treasurer's report, 860
unfinished business, 1365
Woman's Auxiliary, 778
AMERICAN MEDICAL ASSOCIATION OF VIENNA, officers, 47
AMERICAN MEDICAL LIBERTY LEAGUE scout arrested, 696
AMERICAN TYPE CULTURE COLLECTION, report, 562
AMERICAN UNIVERSITY, *1529
AMIDOPYRIN and intestine, [Januschke & Lasch] 1490—ab
AMINO-ACIDS formation and hemolysis, [Doeper & others] 1665—ab
in Blood: See Blood
renal injuries by, [Newburgh & Marsh] 148—ab
AMMONIUM chloride in toxemia of pregnancy, [Mussey] 1393—ab
chloride as urine acidifier, [Muschat] 1942—ab
chloride intravenously causes epileptic seizure, [Jelenkiewicz] 585—ab
Steere's Ammonium Salicylate not accepted for N. N. R., 1383—P
AMNIOTIC fluid, secretion and resorption, [Schmidt] 991—ab
sac intact in premature birth, [Lindsay] 1943—ab
AMOSOL, pyorrhea cure, declared a fraud, 366—P
AMPUTATION stump, painful, ramisection for, [Leriche] 1665—ab
traumatic, of 2 fingers, with severe laceration of hand, [Loeb] *1345
with infected joints, [Tekarek] 1491—ab
AMYL ALCOHOL: See Fusel Oil
AMYLOID formation, [Smetana] 512—ab
AMYLOIDOSIS, experimental, from proteins, [Jaffe] 717—ab
ANALGESIA: See Anesthesia
ANAPHYLAXIS: See also under Asthma; Food allergy; Hayfever; Milk allergy; etc.
alimentary, and acid-base balance, [Parisot & others] 1948—ab
alimentary, vs. leukopedesis, [Loeper & Marchal] 75—ab
allergic dermatitis due to mohair, [Rowe & Rogers] 306—ab
allergy, basic factors in, [Cooke & Spain] 1721—ab
allergy cause of dermatoses, [Duke] 1316—ab
allergy in menstruation, [Gáli] 991—ab
antigenic properties of pollens, [Huber & Koessler] 979—ab
death in, cause of, [Redfern] 1723—ab

V 1

ANAPHYLAXIS—Continued
in children, [Rowe] 977—ab
in experimental tuberculosis, [Boquet & Nègre] 986—ab
multiple, [Duvernay] 1805—ab
relation to immunity, [Manwaring & others] *1271
reticulo-endothelial system and, [Simitch] 1252—ab
reversed passive, [Opie & Furth] 1941—ab
serum, [Bauer & Wilmer] *42; [David & Williatte] 1169—ab; 1234
serum, in children immunized against diphtheria, [Stewart] *113
shock, [Cayrel] 1171—ab
shock, atropin may prevent, [Garrelson & Santenoise] 74—ab
shock in measles after burn, [Proguiski & Redlich] 1731—ab
ANASTOMOSIS: See also Blood Vessels; Intestines; Nerve; Veins
arteriovenous, [Eppinger & others] 2006—ab
hypoglossofacial, for facial paralysis, [Brown] 373—ab
telescopic, with partial gastrectomy, [Babcock] 1660—ab
ANAVOXIN: See also Diphtheria, toxoid; Dysentery, toxoid; Scarlet Fever, toxoid; etc.
does milk induce its production? [Joannidès] 451—ab
ANEDEMIN TABLETS, testimonials, [Diller] 437—C
ANEMIA: See also Chlorosis
acute febrile, blood transfusion for, [Brill] 1481—ab
acute febrile, search for it is begun, 1289—E
aggravating effect on angina pectoris, [Bullrich] 809—ab
aplastic, [Denecke] 1254—ab
cerebral, caused by hot bath, 1992
differentiating, by erythrocyte diameter, [Grosh & Stifel] 980—ab
differentiating, icterus index in, [St. George & Brown] 686—ab; [Murphy] 1162—ab
erythrocyte metabolism in, [Denecke] 1255—ab
experimental, from phenylhydrazine, [Long] 1940—ab
fatal, at early age, [Barr] 230—ab
from radioactive substances, 120—E
from radium therapy, 498
goat's milk, [Glanzmann] 990—ab
goat's milk, and tuberculosis in goats, [Brouwer] 1592—ab
in congenital syphilis, [Frank] 658—ab
in hypothyroidism, [Mackenzie] *462
in infants, iron therapy in, [Bass & Denzer] *938
in pregnancy, [Esch] 1810—ab
pathogenesis, and spleen, 706
renal insufficiency and, [Adams & Brown] 1160—ab
secondary, treatment, [Sheppard] 1864—ab
splenic, Gaucher's [Cushing & Stout] 1317—ab
splenic, in children, splenectomy for, [Ashby & Southam] 1320—ab
treatment, cholesterol, [Escudero & Puchulu] 1103—ab
treatment, iron, [Whipple] 367—C; [Osborne] 571—C; [Bass & Denzer] *938
treatment, iron and ammonium citrate with arsenic, 1092
treatment, iron and blood regeneration, 1075—E
treatment, ultraviolet rays, [Tixier] 452—ab
ANEMIA, PERNICIOUS, aplastic, [Whitby & Jackson] 1099—ab
aplastic, from professional use of roentgen rays, [Lankoui] 522—ab
atypical, [Sutton] 1319—ab
blood atoxyl-resistant lipase in, [Simon] 236—ab
blood chemistry in, [Becher] 1811—ab
blood crisis in, [Somerford] 516—ab
blood platelet index in, [Allard] 1738—ab
blood sugar in, [Blumenthal & Neuberger] 454—ab
blood transfusion in, [Jones] *1673
chloride metabolism in, [Rioch & Cameron] 1655—ab
colon bacillus and, [Cohn] 917—ab
etiology and pathogenesis, [Gram] 992—ab
experimental, [Kaiiriukschtis] 1667—ab
familial, [Johannessohn] 77—ab; [Tscherning] 1952—ab
hydrochloric acid in, [Taubmann] 1254—ab
intestinal obstruction and, [Haden] 1396—ab
phagocytic cell in bone marrow, [Doan] 1800—ab
researches on, [Montgomery] 1655—ab
reversion of hemolysis, [Starlmyer] 588—ab
spinal cord degeneration and, [Reese & Beigler] 1578—ab
treatment, blood from plethoric donor, [Weil & Stieffel] 155—ab
treatment, diet, [Minot & Murphy] 1861—ab
treatment, mercurochrome, [McLaughlin] 1317—ab
ANESTHESIA, acetylene, and postpartum period, [Mauerer] 79—ab
acetylene, blood in [Mueller] 79—ab
acetylene, explosion in, [Oehlecker] 1737—ab
blood circulatory change in, 1824—ab

ANESTHESIA—Continued
blood urea and, [Abadie & others] 1732—ab
cervical paravertebral, epileptiform spasms in, [Römcke] 730—ab
chloroform after-effects, and lecithin, [Birkholz] 1954—ab
distribution in blood, [Nicloux & Yovanovitch] 988—ab
effect on electrocardiogram, [Henrijean & Waucomont] 185—ab
effects, postanesthetic hypoglycemia, [Josephs] 512—ab
epidural, [Bisquertt & Coutts] 315—ab
epidural, for perineal prostatectomy, [Shaw] 1725—ab
ether, [Schoorl] 1955—ab
ethyl urethane, effect on blood, [Hawkins & Murphy] 226—ab
ethylene and oxygen, [Guthrie] 303—ab
ethylene, carbon monoxide poisoning after, [Sherman & others] *1765
ethylene or nitrous oxide, 368
ethylene, status, [Rewer] 1802—ab
explosion, fatal, in boy's mouth during operation, 129
explosion in, [Oehlecker] 1737—ab
gases, [Brown & Henderson] 1725—ab
in obstetrics, acetylene, [Maurer] 79—ab
in obstetrics, effect on bleeding and coagulation time of new-born, [Sanford] *265
in obstetrics, [Gwathmey's, [Schiffmann & Seyfert] 1104—ab
in obstetrics, scopolamine-morphine, [Plummer] 1250—ab
in obstetrics, synergistic, [Vogt] 729—ab
lipoid theory, [Winterstein] 1876—ab
local, for tithortity, [Astraldi & Quintana] 453—ab
local, in fracture reduction, [Cohen] *1896
local, mishaps in, [Riccio & La Rossa] 1873—ab
local vs. general, in upper abdominal operations, [Mason] 374—ab, 2001—ab
nerve blocking in fractures treatment, [Müller] 1491—ab
nitrous oxide, [Desmarest] 1949—ab
nitrous oxide or ethylene, 368
paravertebral, [Havlicek] 1811—ab
pons lesion occurring under, [McCardie & Featherstone] 1903—ab
procaine, and paralytic ileus, 1152
respiratory volume and, 51
sacral, [Ottenheimer] 306—ab
spinal, 499
spinal, for cesarean section, [Brindeau] 1486—ab
spinal, technic, [Jonnesco] 989—ab
synergistic, in obstetrics, [Vogt] 729—ab; [Schiffmann & Seyfert] 1104—ab
ANEURYSM, [Reid] 904—ab
aortic, Cantani's sign, [Adorni] 1874—ab
bilateral renal, [Healy] 1319—ab
circle of Willis anomaly and, [Jacques] 1482—ab
in Scarpa's triangle, [McNealy & Spivak] 309—ab
multiple, of large vessels, [Kolodny] *397
of femoral artery, gradual compression, [Eastman] 581—ab
of sinus of Valsalva, [Sheldon] 985—ab
of subclavian artery, [Kirchner] 303—ab
ANGIER CHEMICAL COMPANY, unwarranted use of photograph by, [Hamilton] 1855—C
ANGINA, agranulocytosis, [Pfab] 237—ab
monocytic, [Kwasniewski & Henning] 1255—ab
ANGINA PECTORIS, 1319—ab; [Braun] 1668—ab
anemia aggravates, [Bullrich] 809—ab
body structure and, [Mester] 1736—ab
epidemic, [Kohn] 1589—ab
paroxysms in, [Daniélopolu] 989—ab
pathogenesis, [Singer] 1256—ab
secondary, [Weissenbach & Kaplan] 1401—ab
surgery of, [Goldscheider] 454—ab; [Danielopolu] 989—ab; 1098—ab
sympathectomy in, [Cutler & Fine] *1972
sympathectomy in, cardiac condition after, [Jonnesco & Ionesco] 517—ab
treatment, glucose intravenously, [Meyer] 521—ab
treatment, neuron block, [Swetlow] 1652—ab
treatment, paravertebral alcohol block, [Swetlow & Schwartz] *1679
ANGIO-ENDOTHELIOMA of placenta, [Maxwell] 910—ab
of bone, [Kolodny] 1799—ab
ANGIOMA of jaw, [Kroh] 236—ab
ANGULAR VEIN: See Veins
ANILINE shoe dye poisoning, [Patek] *944
poisoning, acute, [Young & others] 1725—ab
ANIMAL EXPERIMENTATION, antivivisection bill, District of Columbia, 562; 1630
antivivisection propaganda, Buenos Aires, 1637
ANIMALS, bacteria in muscular tissues and blood of, [Reith] *325
Behavior: See Behavior, animal
ANKYLOSIS operations on tuberculous spine, [Ely] *1748
ANKYLOSTOMIASIS: See Uncinariasis
ANOMALIES: See Abnormalities
ANOPHELES: See also Mosquitoes
infestation without malaria, [Alessandrini] 915—ab
ANOXEMIA: See Blood, oxygen

ANTACIDS, action, [Silberstern & Pirk] 158—ab
ANTHELMINTICS: See under Carbon tetrachiorid; Chenopodium; Tetrachlorethylene; etc.
ANTHRAX, [Singer] 657—ab; 874—E
bacillus vs. *pu*, 1145
in man, treatment, [Destéfano & Vaccarezza] 1735—ab
vaccination, intracutaneous, [Nevodoff] 1402—ab
ANTHROPOLOGY, chair of, University of Sydney, 496
man and great apes, 1084; 1156; 1390
ANTHROPOMETRY, surface area formula, 1924
ANTIBODIES, lipoid, [Brandt & others] 1876—ab
ANTIGEN character of own erythrocytes, [Wiechels] 522—ab
injection, specific, in asthma, [Solis-Cohen & Rubenstone] 1244—ab
treatment of tuberculosis, [Nègre & Boquet] 1587—ab
ANTIMONY, locally, in chancroidal ulcers, [Rupel] *544
derivatives, organic, action of, [Chopra] 1945—ab
tartrate injections, action, [Christopherson & Gloyne] 1099—ab
ANTIPERISTALSIS: See Peristalsis
ANTISEPSIS, did Lister know about Semmelweiss? 886
ANTISEPTICS: See also Brilliant Green; Crystal Violet; Disinfectants; Hexylresorcinol; etc.
urinary, [Davis] 1726—ab
ANTITOXIN: See under Diphtheria; Scarlet Fever; Tetanus; etc.
ANTRUM, infection, treatment, 1716
ANTS, habits of, 1467
ANURIA: See Urine, suppression
ANUS, atresia, congenital, [Thorek] *33
Artificial: See Colostomy belt
Fistula: See Fistula
AORTA, abdominal, compression, [Neumann] 1326—ab
abdominal, pulsation, [Pick] 1668—ab
coarctation, [Bruce & Ball] 1246—ab
disease, and Flint's sign, [Stanojević & Vančura] 79—ab
lesions, and nerve irritation, [Shaw] 986—ab
perforation syndrome, [Couto] 1947—ab
rupture, [Paschkis] 455—ab; [Sheldon & Dyke] 1321—ab
Syphilis: See Aortitis, syphilitic
thoracic, rupture, [Sheldon & Dyke] 1321—ab
AORTIC VALVE, regurgitation, roentgenoscopy in, [Ledbetter & others] 649—ab
regurgitation, etiology, [Harmer] 1728—ab
AORTITIS, mesaortitis and general paresis, [Coenen] 990—ab
syphilitic, [Bonnin] 725—ab; [Bruhns] 1407—ab
syphilitic, paroxysmal dyspnea in, [Keefer & Resnik] 1481—ab
syphilitic, prognosis, [Maclachlan] 579—ab
APES: See also Monkeys
blood groups in, [Landsteiner & Miller] 982—ab
man and great apes, 1084; 1156; 1390
APHONIA from goiter, [Shuman] *1981
APOPLEXY: See Brain, hemorrhage
APPARATUS: See also under Instruments
for suspending ice-bag, [Lindsey] *748
portable, for traction with arm fracture, [Ingaramo] 915—ab
reading and writing for recumbent, [Alexander] *346
APPENDECTOMY on principle, [Gucci] 1489—ab
acute hemorrhagic nephritis after, [Harbitz] 238—ab
technic, [Schönstadt] 1736—ab
APPENDICITIS, acute, [Wallace] 374—ab
among Chinese, [Gibson] 1320—ab
blood picture in, [Volk] 1172—ab
chronic, [Hertzler] 1393—ab
chronic, diagnosis, 835—ab
chronic, left shoulder pain in, [Gray] 579—ab
chronic, leukocyte count in, [Menninger & Holder] 581—ab
complication, peculiar, [Davis] *1689
diagnosis, phrenic sign in, [Iliescu] 986—ab
diagnosis: acute salpingitis? [Ten Berge] 991—ab
in early life, [Peterson] 1478—ab
mesenteriolum in, [Rubaschow] 79—ab
mortality, factors influencing, [Warnshuis] *169
pylephlebitis and liver abscess after, [Ellason] 1944—ab
treatment, [Hotz] 656—ab
treatment, appendekthilpsia, [Geeslnk] 1328—ab
APPENDICOSTOMY for relief of thirst, [Crawford] 1166—ab
APPENDIX, anomalous position, [Keaton] 653—ab
diseased, causes acidosis, [Gray] 304—ab
endocrine function of, [Moutier & Fouché] 2004—ab
enlarged, [Williams] 309—ab
floating, [Chapman] 1484—ab
foreign bodies in, [Milano] 1404—ab

APPETITE: See also Nutrition
children who do not eat well, [Peyrer] 918—ab
decreasing appetite, 1309
APPLES, American, arsenic on, protest from England, 637; 1143; 1226; 1636
American, arsenic on, protest from Switzerland, 1563
ARACHNIDISM, [Bogen] *1894
ARCHIVES OF DISEASE IN CHILDHOOD, 702; 1135—E
ARGENTINA, medical matters in, 1850
ARKANSAS still inactive, 1554—E
ARM: See also Extremities
absence, congenital, reconstructive surgery, [Mock] *541
artificial, ancient, [Putti] 915—ab
fracture, portable device for traction with, [Ingarano] 915—ab
ARMSTRONG, J., diploma mill scandal, 121—E
ARMY, British, health of air force, 360
British, health of, 1707
Italian, antirenneral prophylaxis in, 1924, 497
Italian, hygienic propaganda in, 885
U. S. Army Medical School new building, 710
U. S., hospital, permanent buildings for, 1778
U. S., influenza in, 1083
ARRHYTHMIA: See also Auricular Fibrillation
asystole, in Stokes-Adams disease, [Herapath] 1586—ab
extrasystoles, in childhood, [Bass] *387
sinus respiratory, in children, [McCrudden] *535
ARSENIC in tissue, microchemical study, [Osborne] 376—ab
normal constituent of body, [Myers & Cornwall] 304—ab
on American apples, protest by England, 637; 1143; 1226; 1636
on American apples, protest by Switzerland, 1563
poisoning, endemic chronic, [Bosco] 235—ab
ARSPHENAMINE: See also Neoarsphenamine; Sulpharsphenamine
action, [Schumacher] 917—ab
controlling "odor" and "taste", [Stokes] *840; [Broeman] 1385—C; [Barach] 1642—C
dermatitis, sodium thiosulphate in, [Chen] 807—ab
government control, Belgian, 51
jaundice from, [Meyer] 385—ab
silver, in multiple sclerosis, [Sauer] 1173—ab
sterilization with, [Prigge] 1406—ab
testing, [Kolle] 1589—ab
treatment, [Laurent] 516—ab
treatment, hemoglobinuria in, [Munter & Steinitz] 1255—ab
treatment in chorea, [Herrera] 157—ab
treatment in experimental recurring fever, [Krantz] 1172—ab
treatment of endamebiasis, [Brown] *457
ART exhibit, physicians, Brussels, 499
ARTERIES, carotid, surgery, [Brüning] 917—ab
carotid, bilateral arteritis, [Harbitz] 1939—ab
Coronary: See also Thrombosis, coronary
coronary, disease, pathology, [Benson & Hunter] 513—ab
coronary, occlusion, [Clark] 514—ab; [Hamman] 1865—ab
coronary, sclerosis, and cardiac infarct, [Werley] 229—ab
coronary, visualized by iodized oil, [Rousiacroix] 808—ab
occlusion, traumatic, [Melchior] 237—ab
of cerebral vessels and hypertension, [Bordley & Baker] 1865—ab
palpable arterial coats in children, [Vipond] 1661—ab
pancreatic, denervation, hypoglycemia after, [Doppler & Steinmetzer] 1877—ab
pulmonary, arteritis, [Schlaepfer] 1863—ab
pulmonary, sclerosis, [Arrillaga] 453—ab
renal, blood course in, [Langley] 72—ab
trachea to bridge gap in, [Leone] 1873—ab
wall, histophysiology, [Antischkow] 77—ab
ARTERIOLES, constriction causes gangrene, [Slaughter] *1608
ARTERIOSCLEROSIS, Coronary: See Arteries, coronary
defined, [Warfield] 218—C
of cerebral vessels and hypertension, [Bordley & Boker] 1865—ab
of spinal cord, [Marinesco & Draganesco] 1665—ab
Pulmonary: See Arteries, pulmonary
ARTERIOTOMY for embolism, [MacDougall] 1655—ab
ARTERITIS of pulmonary artery, [Schlaepfer] 1863—ab
bilateral carotid, [Harbitz] 1938—ab
obliterans, sympathectomy for, [Cain & Hamburger] 1948—ab
syphilitic, in children, [Gilkie & Dennie] 1795—ab
ARTHRITIS, chronic infectious, vs. diabetes mellitus, [Schmitt & Adams] *535; [Jordan] 1090—C
chronic, treatment, [Fuchs] 318—ab
climacteric, 392—ab
deforming, from cactus spines, [Lowy] 1407—ab
in psoriasis, [Morgenstern] 1256—ab
infectious, of hip joint in children, [Cooperman] 1243—ab

ARTHRITIS—Continued
nonintective, in women, [Cumberbatch & Robinson] 1661—ab
parkinsonian tremor with [May] 1100—ab
polyarthritis, chronic, in congenital syphilis, [Nobécourt] 1872—ab
polyarthritis of intrauterine origin in infant, [Richdorf & Griffith] 1243—ab
Syphilitic: See Joints, syphilis
traumatic, 290
treatment, autovaccine, [Reimold & Stoeber] 1737—ab
treatment, bathing extremities with molasses, [Chlumský] 318—ab
treatment, physiotherapy, [Gordon] 909—ab
Tuberculous: See Joints, tuberculosis
ARTHRODESIS for sacro-iliac joint tuberculosis, [Smith-Petersen & Rogers] *26, 806—ab
ARTHROPATHY: See Joints, diseases; Neuroarthropathy; Osteo-arthropathy; Tabes Dorsalis
ARTHUS' PHENOMENON after diphtheria anatoxin injection, [Tzanck & others] 1252—ab
ASCARIASIS, menace of, 629—E
night blindness from, [Harigopal] 1870—ab
treatment, raw sauerkraut, [Hartmann] 1876—ab
ASCARIS ova in gall tract drainage, [Preston] 1584—ab
nephritis, [Africa & Mendoza-Guazon] 1727—ab
ASCITES, acute peritonitis and cirrhosis with, [Garnier] 1486—ab
hypogenital, [Stanganelli] 916—ab
ASPHYXIA, epinephrin secretion in, [Houssay & Molinelli] 74—ab
fetal, chloroform inhalation for, [Willkomm] 455—ab
neonatorum, intracardiac injection of epinephrine in, [Garipuy & Mériel] 1101—ab; 1274
ASPIRATING devices, [Ferguson] *1283
ASPIRIN COMPOUND, Steere's Elixir, not accepted for N. N. R., 1383—P
ASSES, bites, [Sala] 76—ab
ASSOCIATED HEALTH INSTITUTIONS, 644—P
ASSOCIATION OF AMERICAN MEDICAL COLLEGES, commission on medical education, [Rappleye] 1078—ab
ASSOCIATIONS: See under Societies at end of letter S
ASTHMA and toxin-antitoxin, 1309
[Van Leeuwen] 1809—ab
allergic; immunizing against egg, 1308
allergic, nonspecific desensitization therapy, [Spangler] 979—ab
attacks in chronic bronchitis, [Hagens] 992—ab
calcium deficiency in, [Brown & Hunter] 446—ab
cardiac, [Wassermann] 991—ab
cardiac, epinephrine in, 1472
constitutional, [Schmidt] 727—ab
due to hackberry (Celtis) pollen, [Kahn] *346
enlarged tuberculous tracheo-bronchial glands simulating, [Peshkin & Fineman] *1429
experimental, [Brauncker] 1254—ab
fatal, [Rackemann] 1483—ab
in children, [Morquio] 157—ab; [Comby] 912—ab; [Zerbino] 916—ab; [Rowe] 977—ab; [González Meneses y Jiménez] 1587—ab
pathogenesis, [Daniélopolu] 156—ab; 1851
surgical treatment, [Ishiyama] 231—ab
surgical treatment, vagotomy, [Kern] 582—ab
sympathectomy and, [Rohde] 1807—ab
treatment, [Daniélopolu] 156—ab; [Hofbauer] 237—ab; 1851; 1931, [Storm van Leewen & Kremer] 1953—ab
treatment, alcohol injection into nasal ganglion, [Gundrum] 1244—ab
treatment, Asthma-Tab Laboratories, 217—P
treatment, autohemotherapy, [Carranza & Ozgaz] 1253—ab
treatment, ephedrine, [MacDermot] 2002—ab
treatment, epinephrine, [Pagniez & Escalier] 1948—ab
treatment, Florence Formula, 435—P
treatment, malaria, [Mainini] 380—ab
treatment, pituitary extract, [Buendía] 1873—ab
treatment, protein, [Spangler] 979—ab
treatment, spleen irradiated, [Waldbott] 149—ab
treatment, ultraviolet rays, [Duhem] 1170—ab
treatment, vaccine, [Brown] 1159—ab; [Solis Cohen & Rubenstone] 1244—ab
treatment, Webb Chemical Company, 643—P
ASTHMA-TAB LABORATORIES, 217—P
ASTRAGALUS, unusual articulation, [Farr] *1128
thyroid metastasis to, [Simpson] 1943—ab
ATHLETES, professional wrestlers, [Lampé & others] 586—ab
pulse in, vs. atropine, [Kauf] 1326—ab
trained, functional heart block in, [Myer] 1322—ab
ATHLETICS, effect on heart, [Damez & others] *1420
heart and action of drugs, [Kauf] 1326—ab
progression of Greek education, 1204—ab
ATMOSPHERE: See Air

ATOPHAN: See Cinchophen
ATROPHY, acute bone, [Noble & Hauser] 904—ab
Muscular: See also Dystrophy
muscular, of hand in elderly, [Lhermitte & Nicholas] 913—ab
muscular, progressive, 266; [Wohlfahrt] 1175—ab
muscular, with heart changes, 1303
peroneal, inheritance of, [Macklin & Bowman] *613
ATROPINE, action on stomach function, [Mitrovitch] 1402—ab
action on metabolism, [Papilian & Bendescu] 1323—ab
action on pulse in athletes, [Kauf], 1326—ab
poisoning, Babinski sign in, [Pezzotti] 1896—ab
prevents anaphylactic shock, [Garrelon & Santenoise] 74—ab
resistance in encephalitis, [Bremer] 583—ab
stomach test, [Stranz] 728—ab
AURICULAR FIBRILLATION, treatment, digitalis, [Gallerini] 1166—ab
treatment, quinidine, [Smith & Clark] 979—ab; [Talley] 980—ab
treatment, veratrum viride, [Wedd & Drury] 1728—ab
AUSCULTATION, electrical, for heart diagnosis, 133
in fracture diagnosis, [Vigevani] 453—ab
sign in uremia, [Anders] 219—C
AUSTRALIAN aborigines, proposed model native state, 1636
aborigines, blood grouping of, [Cleland] 1728—ab
AUTOHEMOTHERAPY: See under Hemotherapy
AUTOLYSIS, Bacterial: See also Bacteriophage
bacterial, transmissible, [d'Herelle] 451—ab; [Bordet] 1949—ab
AUTOMOBILE a major health problem, 1844
driver, licensing, [Ameghino] 1735—ab
driver, intoxicated, problem of 1301
fatalities, heavy, England, 1226
fatalities in France, 128
fatalities in U. S., 126; 635; 1300; 1633; 1920
garages, sanitary regulations, 1081
AUTONEPHRECTOMY, [Flayer & Redewill] *17
AUTOPSIES: See Necropsies
"AUTOSTASIS" and medicine, [de Feyfer] 1326—ab
AVIATION: See also Ambulances, airplane
aptitude for flying, 798
health of English air force, 360
medical service, England, 1635
medicine, scientific predictions of novelists, [Bragman] 58—C
neuroses of aviators, [Meier-Müller] 1733—ab
respiratory changes in airplane flights, 1985—E
rôle of physician in, 799
sanitary service, organization, Italy, 1228
AVITAMINOSIS: See under Vitamins
AXHAM, FREDERICK WILLIAM, case of, 636
death of, 1707
AZOA, rat virus, poisoning, 1715
AZOTEMIA: See Blood, urea

B

BABINSKI'S REFLEX: See Reflex, plantar
BACILLUS: See also under Diphtheria; Typhoid; Tubercle Bacillus; etc.
Abortus: See Bacterium
acid-resisting, in milk, staining, [Fondarinova] 590—ab
Bacillus Acidophilus-P.D.L., Concentrated Culture of, 37
catarrhopyogenic infections and pulmonary tuberculosis, [Shaw] 583—ab
colon, agglutination, [Hoffmann & Pesch] 316—ab
colon, and pernicious anemia, [Cohn] 917—ab
colon, antiserum, [Steinberg & Ecker] 1941—ab
colon, infection, bile in, [Golovanoff] 1252—ab
Döderlein's vaginal, [Lash & Kaplan] 1891—ab
Dysenteriae: See Dysentery
Friedländer's, polysaccharid in, [Heidelberger & others] 227—ab
invisible and uncultivable, [Friedberger] 2006—ab
mucosus causes pneumonia, [Belk] 1395—ab
ozogenes causes fetidity in ozena, [Blanc & Pangalos] 451—ab
paratyphoid-enteritidis group, thermostability of filtrable poisonous products from, 871—E
paratyphoid group, [McCordock] 513—ab
Pasturella: See Plague bacillus
Pfeiffer, in pulmonary tuberculosis prognosis, [Courmont & Boissel] 75—ab
proteus, bacteriology of material contaminated by, [Schuback] 996—ab
Shiga: See Dysentery, bacillus
suipestifer and intestinal influenza, [Cowern] 58—C
Tuberculosis: See Tubercle Bacillus
Type Culture Collection, report, 562
welchii, overgrowth, and intestinal intolerance for carbohydrate, [Kendall] *737

BACKACHE, periarterial sympathectomy for, [Bittmann] 1487—ab
BACTEREMIA vs. acriflavine, [Tenney & Lintz] 1654—ab
BACTERIA, actinomyces-like tonsillar, [Tunnicliff] 1501—ab
anaerobic, effect on botulinum toxin, [Dack] 1395—ab
Autolysis: See Autolysis, bacterial
culture bouillon, inhibiting, [Dresel] 2006—ab
diffraction in, [Pijper] 154—ab
flagella, abnormal, in cultures, [Noguchi] ★1327
heterogenetic specificity among, [Friedländer] 227—ab
in meat, [Brewer] 226—ab
in muscular tissues and blood of animals, [Reith] ★325
infections, acute, mercurochrome in, [Dudgeon] 985—ab
influencing one species by another, [Burnet] 1804—ab
life cycle, [Foûtes] 1734—ab
Salmonella group, differentiation, [Brown & others] 911—ab
symbiosis with bacteriophage, [d'Herelle & Hauduroy] 517—ab
types, "rough" and "smooth," interconvertibility, [Jordan] ★177
Virulence: See Virulence
visible, invisible forms of, [Hauduroy] 1664—ab
BACTERIOLOGY, conference on, 566
volumetric measurement by drops, [Fildes & Smart] 2003—ab
BACTERIOPHAGE, [Saldanha] 76—ab; 1235
antiserums, [Urech & Pache] 1733—ab
bile and, [Caublot] 987—ab
complement fixation and, [Flu] 318—ab
epizootics in mice provoked by, [Okamoto] 2006—ab
ether action on, [Stassano & de Beaufort] 655—ab
in collodion sacs, [Zoeller & Manoussakis] 74—ab
inactivated, antigen property, [Asheshov] 517—ab
inactivation, [Bronfenbrenner & Korb] 1097—ab
oneness of, [Lynch] 981—ab
radium action on, [Lacassagne & Paulin] 912—ab
sodium chloride action on, [Alessandrini] 518—ab
sodium citrate action on, [Stassano & de Beaufort] 655—ab
symbiosis of bacteria with, [d'Herelle & Hauduroy] 517—ab
treatment of pyelitis, [Zdansky] 317—ab
treatment of urinary infections, [Dalsace] 1487—ab
BACTERIUM abortus, is it pathogenic for human beings? [Huddleson] ★943
abortus; Brucella abortus in milk, [Wilson & Nutt] 2003—ab
abortus vs. Malta fever, [Smith] 1247—ab
abortus-melitensis, agglutination affinities, [Orcutt] 1247—ab
ozaenae causes fetidity in ozena, [Blanc & Pangalos] 451—ab
tumefaciens, [Teutschlaender & Kronenberger] 1810—ab
BAG, prostatic, [Barry] ★1437; [Swartz] ★1518
BAKERIES, mass cancer incidence near, [Meyer] 1307—C
BAKERS, tuberculosis in, 362
BALSAM of Peru in mastoid surgery, [Leshure] ★550
BANANAS, vitamin value, [Eddy] 1722—ab
BANDAGES: See Dressings
BANTI'S DISEASE: See Anemia splenic
BARBASOL, irritation following, 1234; 1568
BARBITAL: See also Acid, barbituric
Fabre's test for, 1235
restriction on sale of, 297
skin lesions from, [Caussade & others] 380—ab
BARIUM sulphate for cystograms, 1385
BARTEL, J., death of, 703
BASAL GANGLION: See Ganglion, basal
BASAL METABOLISM: See Metabolism, Basal
BASEDOW'S DISEASE: See Goiter, Exophthalmic
BATESON, WILLIAM, death of, 798
BATHS, carbonic acid Neuheim baths, 709; 1235
carbonated, for hypertension, [Cottet] 1872—ab
hot, effect of, [Landis] 1797—ab
hot, fatal, 1992
research on, at Wiesbaden's Institute, 1851
BAYER 205: See Trypanosomiasis
BEDBUGS transmit typhoid, [Lynn-Ge] 1400—ab
BEHAVIOR, animal, [Sadovnikova-Koltzova] 1104—ab
BELLADONNA: See Intestines, obstruction
BELL-BEUTTNER OPERATION, results, [Bell] 582—ab
BELL'S PALSY: See Paralysis, facial
BELT, new colostomy, [Neely] ★1210
BENZENE, nitrobenzenes are poisonous, [Renshaw & Ashcroft] 1162—ab
poisoning, chronic, [Rohner & others] 1482—ab
poisoning, jaw necrosis from, [Löwy] 1667—ab
BENZOCHOL TEST: See Syphilis, serodiagnosis
BENZOIN REACTION: See Cerebrospinal Fluid
BENZYL alcohol, pharmacology, [Gruber] 1097—ab; 1396—ab
Benzyl Alcohol-Van Dyk & Co., omitted from N. N. R., 1233—P
Benzyl Benzoate for Therapeutic Use-Van Dyk & Co., omitted from N. N. R., 1233—P
Benzyl Benzoate, 20% Aromatized Suspension made from, (Van Dyk & Co.) (United Synthetic Chemical Corp.), omitted from N. N. R., 1233—P
BENZYLAMINE, pharmacodynamics, [Love & Waddell] 726—ab
BERIBERI, experimental, vs. insulin, [Chahovitch] 517—ab
question and polished rice legislation in Far East, 128
BESREDSKA REACTION: See Tuberculosis, serodiagnosis
BIBLE, evolution and Book of Genesis, 48
BILE and bacteriophage, [Caublot] 987—ab
cholesterol, and food, [Salomon & Silva] 1405—ab
culture in typhoid diagnosis, [Alexa & Munteanu] 988—ab
expulsion vs. magnesium sulphate, [Ganit & Volborth] 1657—ab
flow, regulation, 40—E; [Burget] 68—ab
in colon bacillus infection, [Golovanoff] 1252—ab
internal diversion, [Corachán] 1735—ab
Pigment: See also Bilirubin
pigment formation, site of, 119—E; 1985—E
pigment produced from hemoglobin, [Mann & others] 1938—ab; 1985—E
secretion, stimulated by oleic acid, [McClure & others] 149—ab
BILE DUCTS, anatomy, [Fuchs] 1254—ab
calculi, duodenal tube in, [Tobias] 76—ab
calculi, experimental dietary, [Fujimaki] 1946—ab
cancer, primary, [Mosto] 74—ab, 809—ab
cirrhosis, [Parsons & Hickmans] 1795—ab
cystic dilatation, [Lill & Ramsay] 311—ab
disease, psychology of patients with, [Parturier] 1169—ab
inflammation, causes intestinal stenosis, [Lagravinese] 915—ab
intrahepatic, rupture, [Smith] 1096—ab
motility, [Kalk & Schoendube] 1491—ab
necessity for exploring, in gallbladder operations, [Alvaro Covarrúbias] 1404—ab
pain, pathogenesis, [Chiray & Pavel] 1101—ab
surgery, plastic, [Muzeneek] 2005—ab
visualization, by roentgenograms of barium meal, [Hobbe & Smith] ★476
BILHARZIASIS: See Schistosomiasis
BILIRUBIN: See also Bile pigment
concentration of duodenal contents, [McClure & others] 149—ab
formation, [Melchior & others] 1736—ab
formation, site of, [Mann & others] 68—ab
in Blood: See Blood
BIOLOGIC products, control of, Buenos Aires, 1085
BIOLOGY, Society of Experimental Biology, Paris, 497
BIOPSY knife, [Dupin] ★749
Federation of American Societies for Experimental Biology Bureau, [Edmunds] 1995—C
BIRDS, structural plan, and flight problem, [Groebbels] 1952—ab
BIRTH CONTROL, Italy bars, 1372
discussed in House of Lords, 1848
legislation, England, 904
measures, [Leunbach] 160—ab
medical aspect, 1464
moral aspects, [Vogtherr] 1104—ab
phenol prevents transportation of ovum, [Novak & Elsinger] 1738—ab
BIRTH RATE: See Vital Statistics
BISMUTH: See also Syphilis, treatment
Bismuthal omitted from N. N. R., 1233—P
carbonate in renal insufficiency, [Yarotzky] 451—ab
compounds in antisyphilitic therapy, 1352—E
compounds, intramuscularly, dangerous, [Cole & others] 1316—ab
mercury and, [Phillippson] 1734—ab
metal (neotrepol) intramuscularly, abscess following, [Sutton] ★346; [Grund] 644—C
poisoning, enteritis from, [Fischer] 1406—ab
treatment, hemoglobinuria in, [Munter & Swan] 1255—ab
treatment of gastric ulcer with diverticulum, [Moutier & Parcher] 655—ab
treatment of mercury poisoning, [Landau & others] 452—ab
Trepol and Neutrepol not acceptable for N. N. R., 135—P
BLACKWATER FEVER, [Ghiron] 915—ab
BLADDER: See also Urinary Tract
anomaly, fibrous partition causes obstruction, [Wallace] 1726—ab
calculi, [Negro] 1403—ab
calculi, local anesthesia for lithotrity, [Astraldi & Quintana] 453—ab
calculi, recurrent dumb-bell stone, [Stirling] ★478
cancer, [MacKenzie] 309—ab
cancer, and deep roentgenotherapy, [Gunsett] 1487—ab
BLADDER—Continued
cancer, Roffo neutral red test in, [Astraldi & Rivarola] 1102—ab
cord bladder, [Herbst] ★93
diverticula, causes of poor results after prostatectomy, [Herbst] ★93
effect on section of sacral nerves, [Potter] 1248—ab
Fistula: See Fistula
foreign body in, hairpin, [Chueco] 453—ab; [Pagliere] 1102—ab
inflammation, defloration, [Narath] 159—ab
laceration, uterus rupture with, [Hagenbuch] 810—ab
nerve bladder, [Herst] ★93
obstruction from fibrous partition, [Wallace] 1726—ab
physiology, impulse for micturition, [Steiner] 919—ab
roentgen study; barium sulphate for cystograms, 1385
roentgen study vs. air in, [Heuser] 1735—ab
rupture during roentgen examination, [Rejsek] 1323—ab
surgery, sigmoid loop transposed to make new bladder, [Strassmann] 810—ab
surgery, total cystectomy in women, [Cassuto] 1873—ab
tumor, diagnosis, [Picker] 1408—ab
tumor, hemangioma, [Katz] 1248—ab
ulcer, elusive, [Ketchum] 574—ab, ★739
wall, endometrial invasion of, [Keene] 148—ab
BLANCHING PHENOMENON, [Zlatogoroff & Derkatsch] 1590—ab
BLASTOMA, ependymal, [Shuman] 1244—ab
BLASTOMYCOSIS, treatment, [Rebaudl] 314—ab
BLIND babies, home for, 1459
education, England, 701
physical development, 1923
BLINDNESS: See also Vision
in youth, cause, [Lamb] 1581—ab
National Committee for Prevention of Blindness, 127; 494
sight saving classes, 1371
BLISTER fluid in measles vaccination, [Modinos] 1486—ab
fluid sugar, [Steiner] 158—ab
sign of death, [Villegas Ruiz] 157—ab
BLOOD, acetonemia, acute, [Modigliano] 808—ab
Acid-Base Equilibrium: See Blood reaction
acidity increased after hemorrhages, [Endres] 1103—ab
after burns, [Schreiner & Pucsko] 455—ab
after roentgen rays and tuberculosis, [Epstein] 1101—ab
alkali reserve variations, [Ambard & others] 1100—ab
alkalinity in diabetes mellitus, [Foshay] 1160—ab
amino-acids, [Becher & Herrmann] 455—ab
amino-acids from effusions, [Loeper & others] 987—ab
ammonia, determination, [Arkhangelsky] 590—ab
ammonia in epilepsy, [Luck & others] 653—ab
anesthetics and, [Hawkins & Murphy] 226—ab
anesthetics in, distribution, [Nicloux & Yovanovitch] 988—ab
atoxyl-resistant lipase, in pancreas disease and anemia, [Simon] 236—ab
bacteria of apparently normal animals, [Reith] ★325
bactericidal potency, [Wolff] 522—ab; [Parks] 720—ab
bactericidal power vs. chemical light rays, [Genner] 1176—ab
bactericidal properties vs. mercurochrome, [Walker] 1482—ab
basophils of new-born, [Friedlander & Wiedemer] 445—ab
bilirubin, icterus index differentiates anemias, [St. George & Brown] 980—ab; [Murphy] 1162—ab
bilirubin in gastric secretory disorders, [Arnoldi & Schechtel] 1254—ab
bilirubin in new-born, [Kramer] 991—ab
bilirubin in pregnancy, [Eufinger & Bader] 1491—ab
calcium, [Andersen] 1176—ab; 1783
calcium absorption from intestinal tract, [Kahn & Roe] ★1761
calcium and thyroid, [Castex & Schteingart] 988—ab
calcium during narcotic action, [Hisinger-Jägerskiöld] 160—ab
calcium, estimating, [Sharpe] 654—ab; [Roe & Kahn] 1865—ab
calcium, hypercalcemia, 1386
calcium; hypocalcemia, experimental, [Moritz] 1246—ab
calcium in diabetes, [Kylin] 920—ab
calcium in eclampsia, [Feinberg & Lash] 1164—ab
calcium in nephritis, [Schmitz & others] 1481—ab
calcium in spasmophilia, [Griffith] ★828
calcium in tuberculosis, [Schoenheit] 67—ab; [Teplitz] 305—ab
calcium-potassium ratio in blood, [Kylin & Myhrman] 588—ab
calcium regulation in pregnancy, [Hetenyi & Liebmann] 455—ab

BLOOD—Continued
calcium vs. bloodletting, [Swingle & Wenner] 903—ab
calcium vs. ingested calcium, [Hjort] 70—ab
calcium vs. light, [Reed & Tweedy] 1798—ab
calcium vs. parathyroid extract, [Berman] 903—ab
calcium vs. rickets, 1838—E
Cells: See also Erythrocytes; Leukocytes
cells vs. pneumococcus extract, [Reimann & Jullanelle] 1097—ab
changes during digestion, [Morgulis] 1246—ab
changes from duodenal fistula, [Walters & others] *186
changes from thyroid extract, [Sherill & Copp] 1394—ab
changes in tuberculous bone lesions, [Muggia] 1325—ab
changes, syphilitic, [Hecht & Schubert] 520—ab; [Klopstock] 1172—ab
chemical changes during convulsions, [Metcalf & Moriarty] 977—ab
chemical changes in whooping cough, [Regan & Tolstoouhov] *181, *1116
chemical differentiation of races, [Manoiloff] 455—ab
chemistry in blood diseases, [Becher] 1811—ab
chemistry in scurvy, [Edelstein & Schmal] 1877—ab
chlorides; hypochloremic diabetes insipidus, [Veil] 587—ab
chlorides: hypochloremia in sublimate poisoning, [Helm] 156—ab
cholesteremia in children, [Baranski] 1804—ab
cholesteremia in insane, [Ornstein] 988—ab
cholesterol and liver, [Thannhauser & Schaber] 1255—ab
cholesterol: hypercholesteremia and naphthalene cataract, [Michail & Vancea] 1665—ab
cholesterol in dementia praecox, [Gibbs] 375—ab
cholesterol in hypertension, [Richard & Roesch] 1731—ab
cholesterol in peptic ulcer, [Jarno] 1952—ab
cholesterol in pleuritic effusion, [Malnini] 450—ab
cholesterol in syphilis, [Rosen & Krasnow] 1724—ab
Cholesterol in thorium treated gout, [Cluzet & others] 1101—ab
cholesterol in tuberculosis, [Grau San Martin] 1588—ab
cholesterol synthesis and hypercholesterolemia, [Weldman & Sunderman] 571—C
Circulation: See also Pulse
circulation and carbohydrate utilization, 353—E; [Cajori] 448—ab
circulation and hemoglobin, [Liljestrand & Stenström] 456—ab
circulation and lumen of vessels, [Ganter] 919—ab
circulation during rest and exercise, [Bock & others] 1936—ab
circulation in exophthalmic goiter, [Liljestrand & Stenström] 456—ab
circulation in extremities, intracutaneous salt solution test, [Cohen & others] *1677
circulation in hypertension and pregnancy, [Liljestrand & Stenström] 456—ab
circulation, measurement, [Haggard] 1936—ab
circulatory changes in anesthesia, 1824—ab
coagulation, calcium lactate hastens, 803
coagulation, early experiment showing need of calcium in, [Solomann & von Oettingen] *898
coagulation in postoperative phlebitis, [Chauvin & others] 1731—ab
coagulation in pulmonary tuberculosis, [Mas y Magro] 587—ab
coagulation vs. sodium citrate injections, [Joannides] 1481—ab
coagulometer, simple, [Peterson] 449—ab
concentration in diabetes, [Bulger & Peters] 980—ab; [Root & White] 1396—ab
constituent, new, [Leimdorfer] 1256—ab
counts after glucose injections, [Wichels] 521—ab
counts, differential, [Moschkowski] 454—ab
counts in acute leukemia, [Falconer] 1798—ab
counts in whooping cough, [Ziegler] 914—ab
diastases in depancreatized dogs, [Markowitz & Hough] 1315—ab
diastatic activity in, [Reid] 653—ab
differentiating human and anthropoid blood, [Landsteiner & Miller] 982—ab
diseases, diagnosis, [Freuchen] 80—ab
dyes in, disappearance, [Wittgenstein] 1490—ab
ethyl urethane anesthesia effect on, [Hawkins & Murphy] 226—ab
examination, value, in kidney disease, [Maclean] 723—ab
fat; diabetic lipemia retinalis, [Bantin] *546
fat in renal disease, [Daniels] 653—ab
fat; lipemia and reticulo-endothelial apparatus, [Oppenheimer & Fishberg] 148—ab
fat; lipemia in diabetics, [Bantin] *546; [Marchbanks] 806—ab; [White] 986—ab; [Warren & Root] 1479—ab
fat vs. protein, in diabetes, [Christensen] 80—ab
fat vs. pregnancy, [Tyler & Underhill] 448—ab
BLOOD—Continued
glucose, free and combined, [Hirsch] 590—ab
glucose isomer in, [Visscher] 1798—ab
glycolysis at varying blood sugar levels, [Leman & Liles] 1097—ab
group tests, [Badino] 1734—ab
groups in apes, [Landsteiner & Miller] 982—ab
groups in Australian aborigines, [Cleland] 1728—ab
groups in cancer, [Weltzner] 455—ab; [Schiff] 1736—ab
groups in hemophilia, [Kubányi] 1490—ab
groups in mother and fetus, [Cathala & Le Rasle] 234—ab; [Ohnesorge] 385—ab; [Du Bouchet] 1252—ab; [Hirszfeld & Zborowski] 1402—ab, 1953—ab; [Allen] 1656—ab
groups, isohemagglutination, [Schneider] 384—ab
hemolytic power vs. heating, [Well & Stieffel] 987—ab
hemolytic property in hemoglobinuria, [Well & Stieffel] 450—ab
hemorrhage effect on, [Kerr] 1866—ab
hormone in, estrual, [Loewe & others] 1875—ab
hormone in, female sex, [Frank & Goldberger] *1686
hormone test, Bock's, [Heyer] 237—ab; [Schubert] 520—ab; [Berek] 810—ab
in acute alimentary disorders in children, [Mitchell] 1940—ab
in burns, [Eden & Herrmann] 1172—ab
in experimental cancer, [Tinozzi] 238—ab
in leprosy, [Schöbl & Ramirez] 1727—ab
in leukemia, [Jaksch-Wartenhorst] 1954—ab
in nutritional disturbances, [Reschid] 1951—ab
in pulmonary tuberculosis, [Tanaka] 1729—ab
iron, determination, [Fowweather] 1398—ab
iron metabolism and, [Asher] 454—ab
irradiation and, [Reed] 68—ab; [Matz] 909—ab
lactacidemia in cancer, [Schumacher] 1667—ab
lactose, [Bernheim & Schlayer] 521—ab; [Kowarski] 521—ab
light effect on, [Koch & Reed] 903—ab; [Reed & Tweady] 1798—ab
lipase, lipine resistant, [Löwenberg & Kwilecki] 1407—ab
Lipoids: See Blood fat
magnesium in tuberculous, [Schoenheit] 67—ab
nitrogen retention in eclampsia, [Mussey] 650—ab
Occult: See Feces, blood in
oxalemia and uremia, [Khouri] 724—ab
oxyacids, aromatic, [Becher & others] 78—ab
oxygen; anoxemia vs. auricles, [Reanik] 377—ab
oxygen; anoxemia vs. heart, [Resnik] 377—ab
oxygen; fatal anoxemia, [Koehler] 68—ab
phagocytes in, [McJunkin] 979—ab
phenol in kidney insufficiency, [Becher & Litzner] 1173—ab
phosphatemia and fibroma, [Dalsace & Guillaumin] 1874—ab
phosphates vs. exercise, [Havard & Reay] 1802—ab
phosphorus during action of narcotics, [Hisinger-Jäggenklöld] 160—ab
phosphorus in nephritis, [Schmitz & others] 1481—ab
picture in appendicitis, [Volk] 1172—ab
picture, leukemoid, [Krumbhaar] 1794—ab
picture, reflector of somatic processes, 1782
Plasma: See Serum
platelet count in infants and children, [McLean & Caffey] 445—ab; [Rol] 1805—ab
platelet count vs. vitamin deficiency, [Stammers] 653—ab
platelet extract, action on blood pressure, [Roskam] 233—ab
platelet index in pernicious anemia, [Allard] 1738—ab
platelets, iodine reaction, [Rokay] 990—ab
platelets, peripheral thrombolysis, [Nagy] 77—ab
potassium-calcium ratio in blood, [Kylin & Myhrman] 588—ab
Preservation: See also Blood sample
preservation, technic, [Toscano] 2005—ab
Pressure: See BLOOD PRESSURE
protein cleavage in burns, [Eden & Herrmann] 1172—ab
proteins in diabetes, [Christensen] 80—ab
proteins in diseases, [Leendertz] 1173—ab
proteins in test diuresis, [Lasch] 1667—ab
proteins vs. blood fat in diabetes, [Christensen] 80—ab
pyrimidin nucleosid isolated from, [Hunter & Eagles] 70—ab
reaction; acid-alkali equilibrium and scopolamine, [Regelsberger] 1171—ab
reaction; acid-base balance, vs. water, [Solano Ramos] 1948—ab
reaction; acid-base equilibrium in epilepsy, 1229; [Dautrebande] 1325—ab
reaction; acid-base equilibrium of plasma, [Peters & others] 1318—ab
reaction in rats with sarcoma, [Laclau & Rabinovich] 988—ab
regeneration, [Eddy & Downs] 2002—ab
regeneration and iron, 1075—E
renewal, [Lichtenstein & Terwen] 158—ab
BLOOD—Continued
requirement of ovarian cystoma, [Engelbrecht] 1668—ab
roentgen ray effect on, [Matz] 909—ab
sample, vacuum tube for mailing, [John] 1482—ab
Sedimentation: See also Erythrocytes, sedimentation
sedimentation test, [Bouet] 1738—ab
serologic factors in, [Landsteiner & Miller] 982—ab.
Serum: See Serum
sodium chloride, reduction, for epilepsy, [Freudenberg] 1877—ab
spleen and bone marrow feedings effect on, [Shapiro & Frankel] 906—ab
stain, hemochromogen crystal test for, [Kerr & Mason] 984—ab
stain, Kastle-Meyer test for, [Glaister] 1728—ab
stain, panchromatic, [Proescher & Arkush] 720—ab
sugar, [Harned] 69—ab
sugar, alimentary, and water metabolism, [Klein & Lang] 1174—ab
sugar and cancer, [Silberstein & others] 77—ab
sugar and thyroid diathermy, [Massa] 1253—ab
sugar, and tissues, [Steiner] 158—ab
sugar, arterial and venous, [Gjurić] 238—ab
sugar changes from insulin, [John] 1657—ab
sugar control in tuberculous diabetics, [Nadler] 902—ab
sugar curve in Addison's disease, [Chapman] 1249—ab
sugar curves in encephalitis, [Kasanin & Grabfield] 1161—ab
sugar, drop in, and ileus, [Kubányi] 1667—ab
sugar; hyperglycemia, action of vagus in, [Papilian & Funariu] 1323—ab
sugar; hyperglycemia (alimentary) and epinephrine, [Auricchio] 314—ab
sugar; hyperglycemia without coma, [Leech & Thomas] 1223—ab
sugar; hyperglycemia without glycosuria, [Rathery & Froment] 1948—ab
sugar, hypoglycemia after pancreatic artery denervation, [Doppler & Steinmetzer] 1877—ab
sugar; hypoglycemia and convulsions, 1351—E
sugar; hypoglycemia (insulin), 137
sugar; hypoglycemia (insulin), epinephrine in, 1385
sugar; hypoglycemia, postanesthetic, [Josephs] 512—ab
sugar in Bengalese, [Brahmachari & Sen] 515—ab
sugar in dermatoses, [Simon] 1874—ab
sugar in epidemic encephalitis, [McCowan & others] 1803—ab
sugar in mother and fetus, [Hellmuth] 1807—ab; [Révész & Turolt] 1878—ab
sugar in pernicious anemia, [Blumenthal & Neuberger] 454—ab
sugar levels, glycolysis at, [Leman & Liles] 1097—ab
sugar, microtest for, [Johannsen] 238—ab
sugar, pathologic, [Levinson] 445—ab
sugar regulation in rabbits, [Lévai & Waldbauer] 809—ab
sugar, simple examination, [Stammers] 153—ab
sugar studies, [Gilbert & others] 1865—ab
sugar tests compared, [Duggan & Scott] 1318—ab
sugar test with gastric ulcer, [Scharpff] 1172—ab
sugar time curves and respiratory exchange, [Rabinowitch] 377—ab
sugar vs. diethylacetone, [Mason] 2002—ab
sugar vs. quinine, [Hughes] 515—ab
sugar vs. thyroid feedings, [Hancher & others] 511—ab
sulphur, and suprarenal bronzing, [Loeper & others] 1401—ab
sulphur from effusions, [Loeper & others] 987—ab
sulphur in melanoderma with cirrhosis, [Loeper & others] 1871—ab
supply vs. ovarian function, [Macomber] 1483—ab
Surface Tension: See Serum, surface tension
thiasine, [Benedict & others] 1318—ab
Transfusion: See BLOOD TRANSFUSION
trypanocidal action, [Neumark & Pogorschelsky] 659—ab
ultraviolet radiation of, vs. blood pressure, [Reed] 68—ab
ultraviolet ray action on, [Reed] 68—ab
urea and anesthesia, [Abadie & others] 1732—ab
urea, determination, autoclave method, [Clark & Collip] 1865—ab
urea nitrogen, 1629—E
urea nitrogen concentration, [Tashiro] 1168—ab
urea nitrogen concentration vs. caffeine, [Tashiro] 1168—ab
uric acid, 1456—E
uric acid, in thorium treated gout, [Cluzet & others] 1101—ab
uricoxydase, Flatow] 658—ab; 1175—ab
Vessels: See BLOOD VESSELS

BLOOD—Continued
visc.simetric index in tuberculosis, [Bonorino Udaondo & Castelgts] 383—ab
viscosity vs. heart functioning, [Da-Riu] 2005—ab
volume, experimental alterations, [Holman & Beck] 227—ab
volume in polycythemia, [Lampe] 315—ab
volume, relative, in diabetes mellitus, [Foshay] 980—ab
volume, variations, [Beck & Holman] 227—ab
volume with splenomegaly, [Greppi] 1105—ab
water content and kidney function, [Gigon] 726—ab
BLOOD PRESSURE, arterial, changes after ramisection, [Leriche & Fontaine] 1322—ab
arterial, raised by sodium citrate, [Renaud] 1106—ab
arterial, vs. light, [Reed] 68—ab
blood platelet extract effect on, [Roskam] 233—ab
capillary, and hemorrhages, [Frontali] 916—ab
dry cupping and, 1085
during excitement, [Tigerstedt] 1492—ab
during operations, [Schaefer] 2005—ab
glucose injections and, [Wichels] 521—ab
high, [Müller & Hübener] 158—ab
high, after a pituitary extract intraspinally, [Leimdörfer] 659—ab
high, blood cholesterol in, [Richard & Roesch] 1731—ab
high, cerebral arteriosclerosis and, [Bordley & Baker] 1865—ab
high, chronic nephritis without, [Bonchut & Ravault] 914—ab
high, circulation in, [Liljestrand & Steinström] 456—ab
high, epinephrine reaction in, [Hetényi & Sümegi] 237—ab
high, essential, or hypertonia, 1086
high, from salt, [Ambard & Cahn] 1100—ab
high, in renal insufficiency and anemia, [Adams & Brown] 1160—ab
high, in renal insufficiency vs. diet, 1770—E
high, prognosis, [Ehrström] 386—ab
high, treatment, 368; [Barksdale] 1159—ab; [Sunzeri] 1734—ab
high, treatment, liver extract, 368; [Major] 1794—ab
high, treatment, mineral water, [Cottet] 1872—ab
high, urea secretion in, [Ravina] 914—ab; [Richard & Roesch] 1871—ab
high, vs. pregnancy toxemias, [Herrick & Corwin] 1793—ab
high, vs. protein foods, [Donaldson] 1579—ab
in diagnosis, [Powell] 723—ab
in exophthalmic goiter, [Troell] 660—ab
in lead poisoning, [Invernizzi] 1253—ab
in women, [Alvarez] 1582—ab
intracardiac, [Bard] 655—ab
kidney changes and, [Beckmann] 587—ab
kidney insufficiency and, [Anderson] 1653—ab; 1770—E
low, extreme, in sporadic trichinosis, [Cheney] *1004
lowered by garlic, [Sunzeri] 1734—ab
lowered by watermelon seed, [Barksdale] 1159—ab
of Chinese, [Kilbourn] 1320—ab
potassium permanaganate effect on, [Nott] 585—ab
sleep and, [Campbell & Blankenhorn] 649—ab
ultraviolet irradiation and, [Reed] 68—ab
venous, in legs, [Schott] 1175—ab
venous, in tuberculosis, [Villaret & Martiny] 155—ab
BLOOD TRANSFUSION, [McLester] 908—ab
apparatus, [McLellan] 583—ab; [Brines] 905—ab; [Moll] 985—ab
biologic differentiation in white blood cells and, [Doan] *1593
donors, 876—E; 1080; [Powell] 1940—ab
donor with plethora for anemia treatment, [Weil & Stieffel] 155—ab
experimental, [Rossius] 520—ab
in anemia, [Weil & Stieffel] 155—ab; [Brill] 1481—ab; [Jones] *1673
in carbon monoxide poisoning, [Gordon-Watson] 311—ab
in grave hemophilia with jaundice, [Weil & Stieffel] 987—ab
in infantile nutritional disorders, [Slooff] 1955—ab
in new-born, 1235; [Guénlot] 1486—ab
in pernicious anemia, [Jones] *1673
in septic peritonitis, [Caplesco] 724—ab
of defibrinated blood, [Platt] 935—ab
retinal hemorrhage after, [Schaly] 1955—ab
technic, Kimpton-Brown method, [Brooks] 805—ab
tests, [Metzler] 1808—ab
BLOOD VESSELS: See also Arteries; Capillaries; Cardiovascular System; Vasomotor Mechanism; Veins
anastomosis, stitch interpolation in, [Deedera] 1096—ab
lumen of, and circulation, [Ganter] 919—ab
nerves, pain conduction in, [Hirsch] 1876—ab
permeability, [Cestan & others] 1488—ab
syphilis, [Jungmann & Hall] 1853—ab
transplantation, [Weglowski] 385—ab, 1491—ab
BLOODLETTING, [Nonnenbruch] 78—ab
effect on serum calcium, [Swingle & Wenner] 993—ab
treatment of acute apoplexy, 60
treatment of decompensated heart, [Gordon] 67—ab
treatment of monoxide poisoning, [Gordon-Watson] 311—ab
BODY bequeathed by physician, 1084
surface area, formula, 1924
BODY AND SOUL CLINIC, [Paulsen] *1622
BONE after nail extension, [Block] 236—ab
atrophy, acute, [Noble & Hauser] 904—ab
band and band introducer, [Hagie] *840
cancer from breast carcinoma, [Meyerding & others] 228—ab; [Giles] 304—ab
Conduction: See Hearing tests
explants, [Liek] 520—ab
graft in knee joint disease, [Dupuy de Frenelle] 989—ab
grafts, pedunculated, [Curtillet & Tillier] 1487—ab
growth and bone marrow, [Willich] 1875—ab
growth; cleidocranial dysostosis, [Garrahan & Achinelly] 909—ab
growth in osteogenic sarcoma, [Elsing] 1799—ab
growth in thyroid, [Seelig] 309—ab
growth, lens in, [Stoye] 2006—ab
growth vs. osteoblasts, [Rhode] 309—ab
growth vs. protein substances, [de Bosányi] 445—ab
healing of drill holes in, 1568
implant bridge for tuberculous joint, [Robertson Lavalle] 916—ab
implants in tuberculous spondylitis, [Kipnis] 1172—ab
interstitial growth in, [Haas] 1799—ab
involvement in Raynaud's disease, [Monahan] 1796—ab
membranous, defects, and diabetes insipidus, [Thompson & others] 148—ab
necrosis from radium, [Phemister] 902—ab
osteoporosis after bile fistulas, [Dieterich] 77—ab
sarcoma, bone formation in, [Elsing] 1799—ab
sequestrum, disposition, [Van Dessel] 806—ab
Softening: See Osteomalacia
surgery, [Leriche & Policard] 1252—ab
surgery, fat embolism after, [Schwamm] 1237—ab
surgery, osteotomy for coxa vara, [Losio] 915—ab
thyroid tumors in, [Ferrero & Sacerdote] 381—ab; [Simpson] 1943—ab
Tuberculosis: See also Joints; Tuberculosis, surgical
tuberculosis, blood changes in, [Muggia] 1325—ab
tumor, angio-endothelioma, [Kolodny] 1799—ab
tumors, enchondroma, [Satanowsky] 382—ab
tumor metastasis from thyroid, [Ferrero & Sacerdote] 381—ab
tumors, primary, [Huet] 1323—ab
BONE-MARROW feedings, effect on blood, [Shapiro & Frankel] 906—ab
bone regeneration and, [Ulrich] 1875—ab
excochleation, [Koolman] 1953—ab
injection causes pernicious anemia in rats, [Kairiukschtis] 1667—ab
lymphatic system and, [Kolodny] 718—ab
phagocyte, cell in, in pernicious anemia, [Doan] 1800—ab
reactions, [Muller] 1941—ab
BONOMO, LORENZO, death of, 1563
BOOK OF HEALTH, 503—P
BOOKS: See also Incunabula; Literature, Medical
first published in Mexico, [Léon] 1404—ab
rare, 1302
BOSE, C., "heart" of plant, 428
BOTELHO TEST: See Cancer, serodiagnosis
BOTULISM, 427; [Foord & Forsyth] 1659—ab
Clostridium botulinum vs. temperature [Starin] 1395—ab
frequency, 1922 to 1926, *482
toxin, vs. anaerobes, [Dack] 1395—ab
toxin, behavior in alimentary tract, [Dack] 1395—ab
BOUBA: See Leishmaniasis
BOUGIE bulbs, wax, molding, [Corbus] *114
BOURGEOIS, LÉON, antituberculosis campaign, 429
BOWEL: See Intestines
BRADYCARDIA, unusual case, 1464
in children, [de Toni] 2005—ab
BRAIN: See also Cerebellum; Cranium; Pons; etc.
calcification, [Melkersson] 730—ab; [Hurst] 1099—ab; [Van Dessel] 1486—ab
calcification in rabbit, [Da Fano & Perdrau] 2002—ab
comparative functioning of right and left hemispheres, [Henschen] 589—ab
cortex coefficient, [Economo] 1808—ab
cortex, freezing, produces toxin, [Speransky] 1804—ab
disease, pulse with, [Lund] 1738—ab
edema, treatment, [Maclaire] *672
emulsion for epilepsy, [Militzyn] 1955—ab
function, [Henschen] 1944—ab
Hemorrhage: See also Infants, New-Born
hemorrhage, acute, treatment, 60
BRAIN—Continued
hemorrhage, medicolegal study, [Sand] 1326—ab
hemorrhage, treatment, [Maclaire] *671
in adiposogenital dystrophy, [Kraus] 1736—ab
injuries, birth, [Dollinger] 1877—ab
injuries, treatment, [Maclaire] *670
lesions, pontile hemorrhage in, [Wilson & Winkelman] 1724—ab
physiology, research, 1079
Pressure in: See Intracranial Pressure
puncture, [Wilson] 717—ab; [Neisser] 727—ab
puncture in advanced meningococcus meningitis, [Peet] *1818
sarcomatosis, [Fried] 1245—ab
surgery discussed at German Surgical Society, 1926
Syphilis: See Neurosyphilis
tremor, acute, in young children, [Wieland] 1872—ab
tumor, benzoin test with, [Guillain & others] 234—ab
tumor, calcified, [Melkersson] 730—ab; [Van Dessel] 1486—ab
tumor, diagnosis and localization, [Dandy] 1379—ab
tumor, ependymomas, [Hirsch & Elliott] 651—ab
tumor, glioma, [Swift] 514—ab; [Van Dessel] 1486—ab
tumor in children, [Critchley] 983—ab
tumor, localized by electric resistance [Lihotzky] 1408—ab
tumor of frontal lobe, [Escuder Núnez] 1665—ab
tumor, roentgenotherapy, [Lévy] 518—ab
tumor, surgery for, [Jessen] 992—ab; 1993
tumor, ventricular, causes sudden death, [Shuman] 1244—ab
ventricles, drainage, in hydrocephalus, [Vâda] 729—ab
BREAD, sale of, regulations, Netherlands, 1086
BREAST: See also Nipple
axillary "tail" of, [Fouche] 1947—ab
cancer, [Dahl] 238—ab; [Dietrich] 1952—ab
cancer, deep roentgenotherapy, [Chambacher & Rieder] 585—ab; [Mintz] 1944—ab
cancer, degrees of malignancy, [Greenough] 906—ab
cancer in male, [Judd & Morse] 582—ab
cancer, operable, radiotherapy, [Webster & others] 1321—ab
cancer, postoperative irradiation justified? 1994
cancer, recurrent inoperable, radiotherapy, [Lee & Tannenbaum] *250
cancer, report by Ministry of Health, England, 1225
cancer, treatment, [Tománek] 456—ab
cancer with metastasis to bones, [Meyerding & others] 228—ab; [Giles] 304—ab
cancer with metastasis to heart, [Kapsinow] 1244—ab
hyperplasias, epithelial, [Cheatle] 1165—ab
inflammation, [Preisseeker] 1175—ab
inflammation complicating orchitis, 1996
inflammation, local autohemotherapy, [Rubeska] 1104—ab
mammary gland, innervation, [Kahn] 77—ab
mammary gland, involution, fibromatosis and cancer, [Dietrich] 1952—ab
mammary gland tuberculosis, [Shipley & Spencer] 1245—ab
Milk: See Infants; Milk, human
surgery, acusector in, advantages, [Kelly & Ward] 1096—ab
tuberculosis, [Hinton & Lawson] 1244—ab; [Shipley & Spencer] 1245—ab
tumors, spontaneous, of mice, calendar rhythm in, [Marsh] 71—ab
BREATHING: See Respiration
BREVOORT, H. S., 1928—P
BRIGHT'S DISEASE: See Nephritis
BRILLIANT GREEN, antiseptic value, [Ferguson] 153—ab
BRITISH COLLEGE OF OSTEOPATHY, 1780
BRITISH MEDICAL ASSOCIATION and colonial service, 564
Archives of Disease in Childhood sponsored by, 702; 1135—E
Journal of Neurology and Psychopathology to be published by, 1634; 1708
meeting, 962
nursing homes and, 1636
sells former headquarters, 1463
tests for drunkenness and, 496
BRITISH MEDICAL REGISTER: See also General Medical Council
case of Dr. Axham, 636; 1707
Irish Free State and, 564, 904
physician removed from, for using press to obtain patients, 49
BRITISH OPTICAL CONVENTION, 1780
BROAD LIGAMENT, hernia in, [Dunn] 1660—ab
BROMINE, centennial, 1672—ab
BRONCHIECTASIS and sinusitis, concomitance, [Raffo] 511—ab
diagnosis, iodized oil in, 638; [Pritchard & Gordon] *1119
treatment, 638; [Castex & others] 1251—ab
treatment, drainage, [Singer & Graham] 1315—ab
treatment, iodized oil, [Pritchard & Gordon] *1119

BRONCHIECTASIS—Continued
treatment, phrenicotomy, 638; [Moure & others] 1169—ab; [Maurer] 1170—ab
BRONCHITIS, chronic, with asthmatic attacks, [Hagens] 992—ab
from low chlorine gas concentrations, [McCord] *1687
postoperative, autohemotherapy, [Graser] 79—ab
postoperative, ether in, [Bier] 810—ab
spirochetal, [Alvarez López] 382—ab; [Fernández] 382—ab
treatment, autohemotherapy, [Graser] 79—ab; [Rieder] 919—ab
BRONCHOPNEUMONIA, chronic, in congenital syphilis, [DeJong & Lestocquoy] 1170—ab
in infants, [Hamburger] 1255—ab
repaired heart behavior in, [Fisher] *192
BRONCHUS, roentgen study with lodized oil, [Pritchard & others] *1119; [Iglauer] *1879
diphtheritic cast, [Bly] *1833
Tuberculosis: See Lymph Nodes, tuberculosis
BROTH, glucose brain broth, [Rosenow] 1643
BROWN, ROBERT CHARLES, bequeaths his body, 1084
BRUCELLA Abortus: See Bacterium abortus
BUFALINI, MAURIZIO, celebration in his memory, 1375
BULBOCAPNINE, [Mella] 1654—ab
BUREAU OF FISHERIES biologic laboratories, accommodations at Woods Hole, 1081
BUREAU OF MEDICAL RESEARCH, bill to establish, U. S., 426
BURGESS-Johnson-Webb syndicate of frauds, 641—P
BURNS, blood after, [Schreiner & Pucsko] 455—ab
anaphylaxis shock in measles after, [Proguski & Redlich] 1731—ab
in course of treatment, liability for, 1859—Ml
protein cleavage in, [Eden & Herrmann] 1172—ab
Roentgen Ray: See Roentgen Rays
scarlatinal eruption after, [Herderschée] 522—ab
treatment, evaporating lotions, [Fantus] *197
treatment, paraffin films, [Fantus] *116
treatment, sodium chloride solution intravenously, [Bigger] 1867—ab
BURNSIDE'S PURIFICO, 368
BURSA, occupational, on tibia, [Eccles] 1249—ab
BURT VACUUM TUBE, 218—P
BUTTERMILK, concentrated, [Weil] 2006—ab
BUTYL NITRITE (*n*) antirachitic substances, [Bills] 1246—ab

BOOK NOTICES

Abdomen, Thérapeutique chirurgicale. Tome III. Abdomen et organes génito-urinaires, 1858

Abdominal Disease, Acute, Clinical Researches in, 574

Abdominal Operations, 1933

Abt, I. A., Simplifying Motherhood, 370

Alexander, J., Surgery of Pulmonary Tuberculosis, 1717

Allen, F. M., Treatment of Kidney Diseases and High Blood Pressure; Practical Manual for Physicians and Patients, 895

Allen, P. W., Industrial Fermentations, 1789

Allers, R., Psychogenese und Psychotherapie körperlicher Symptome, 61

Anatomie, Grundriss der Wissenschaftlichen, 1093

Anatomie, Handbuch der speziellen pathologischen Anatomie und Histologie, Zwölfter Band, 1998

Anatomy, Surface, Elements of, for Students of Medicine, 440

Anesthesia, Lehrbuch der Lokalanästhesie des Ohres und der oberen Luftund Speisewege, 1310

Animals of Land and Sea, 647

Aortite postérieure, les syndromes, (aortite thoracique, aortite abdominale), 223

Appleton, J. L. T., Jr., Bacterial Infections, with Special Reference to Dental Practice, 439

Arny, H. V., Principles of Pharmacy, 1387

Arrhenius, S. A., Chemistry in Modern Life, 1933

Artificial Limbs, Die Chirurgie, Lieferung 4, Band I, 140

Asphyxia: L'oxyde de carbone et l'intoxication oxycarbonique, 897

Aub, J. C., Lead Poisoning, 1311

Aviation Medicine, 1572

Axenfeld, T., Handbuch der Gesamten Augenheilkunde, Lieferung, 488-490. I. Teil, I. Band, 2 Abt., Kapital III. Mikroskopische Anatomie der Regenbogenhaut, 1789

Bacteria in Relation to Soil Fertility, 804

Bacteriology and Applied Immunology for Nurses, 1718

Bacteriology, General and Pathogenic, and Immunity, Laboratory Manual in, 61

Ballenger, W. L., Diseases of Nose, Throat and Ear, Medical and Surgical, 222

Barrett, E. B., Man: His Making and Unmaking, 1389

Bats, Mosquitoes and Dollars, 439

Bauer, J., Psychogenese und psychotherapie körperlicher Symptome, 61

Bauer, L. H., Aviation Medicine, 1572

Beattie, J. M., Textbook of Pathology, General and Special, 1310

Benedek, L., Abhandlungen aus der Neurologie, Psychiatrie, psychologie und ihren Grenzgebieten, Heft 34, Der Neutigen Stand der Behandlung der progressiven Paralyse, 1311

Bensusan, S. L., Some German Spas, 646

Bentley, A. O., Text-Book of Pharmaceutical Chemistry, 1858

Bereft, 575

v. Bergmann, G., Handbuch der Normalen und Pathologischen Physiologie, Zweiter Band, Atmung, 803

Berkeley, W. N., Principles and Practice of Endocrine Medicine, 973

Bernard, L., La tuberculose pulmonaire, 647

Besredka, A., Immunisation locale pansements spécifiques, 508

Bethe, A., Handbuch der Normalen und Pathologischen Physiologie, Zweiter Band, Atmung, 803

Biology, Animals of Land and Sea, 647

Biology, Growth of, 646

Biology, Science of, 1236

Biometry, Natural Increase of Mankind, 1789

Birth Control, 507

Bladder, Die Innervation der Harnblase, 1718

Bladder, Operative Cystoscopy, 1387

Blood, Blutkrankheiten, 896

Blood Pressure, High, Treatment of, and Kidney Diseases; Practical Manual for Physicians and Patients, 895

Boyd, M. F., Preventive Medicine, 223

Braun, L., Psychogenese und Psychotherapie körperlicher Symptome, 61

Brown, L., Intestinal Tuberculosis, 1857

Burrows, H., Pitfalls of Surgery, 507

Burton-Opitz, R., Elementary Manual of Physiology, 440

Cadogan, William, [His Essay on Gout], 1998

Caesarean Section, 1997

Campbell, C. A. R., Bats, Mosquitoes and Dollars, 439

Campbell, W. R., Insulin. Part II. Clinical Section, 1236

Cancer, 62

Cancer, Die Krebskrankheit, 440

Cancer, Die Ursache des Carcinoms, 1389

Cancer Surgery, Some Encouragements in, 508

Canuyt, G., Le sinus sphénoïdal, 62

Carbon monoxide poisoning, L'oxyde de carbone et l'intoxication oxy-carbonique, 897

Carswell, D., Trial of Ronald True, 896

Cave, E. H. P., Radiological Examination of Male Urethra, 896

Chapin, H. D., Diseases of Infants and Children, 1093

Chemistry, Allen's Commercial Organic Analysis, Volume IV, 1858

Chemistry in Modern Life, 1933

Chemistry, Pharmaceutical, Text-Book of, 1858

Chemotherapie, Handbuch der experimentellen Therapie Serum und Chemotherapie, 1311

Children, Das Wachstum des Kindes, 1387

Children, Grundriss der Heilpädagogik, 1388

Children, Sick, Clinical Study and Treatment of, 1154

Christiansen, V., Les tumeurs du cerveau, 1932

Clairmont, P., Diagnostische und therapeutische Irrtümer und deren Verhütung Chirurgie. Siebentes Heft. Verletzungen und chirurgische Krankheiten der Mund-und Rachenhöhle, des Halses einschl. der Speicheldrüsen, der Speiseröhre, des Kehlkopfes und der Trachea, 1997

Clark, A. H., Animals of Land and Sea, 647

Climates of United States, 646

Colon, Tumors of, and Rectum: Their Pathology, Diagnosis and Treatment, 1933

Convulsions, Eine Studie über Krämpfe (A Study of Convulsions), 1573

Cooper, E. R. A., Histology of the More Important Human Endocrine Organs at Various Ages, 438

Cope, Z., Clinical Researches in Acute Abdominal Disease, 574

Copher, G. H., Methods in Surgery, 1237

Craig, C. F., Manual of Parasitic Protozoa of Man, 1788

Cream, Thomas Neill, Trial of, 896

Cystoscopy, Operative, 1387

Czerny, A., Des Kindes Ernährung, Ernährungsstörungen und Ernährungstherapie, Band II, Teil I, 298

DaCosta, J. C., Modern Surgery, General and Operative, 140

Dana, C. L., Text-Book of Nervous Diseases, 140

Dass, J., Manual of Hygiene and Public Health, 1388

Davies, H. W., Respiratory Function in Disease, 1647

Day, E. E., Statistical Analysis, 1647

Deaf, Ears and the Man, 1155

de Kruif, P., Microbe Hunters, 1310

Dementia Praecox, Abhandlungen aus der Neurologie, Psychiatrie, Psychologie und ihren Grenzgebieten, Heft 32. Familienpsychosen im schizophrenen Erbkreis (Psychosen bei den Eltern von Dementia Praecox-Kranken), 1237

Denker, A., Handbuch der Hals-Nasen-Ohren-Heilkunde. Zweiter Band. Zweiter Teil. Die Krankheiten der Luftwege und der Mundhöhle, 1717

Dennig, H., Die Innervation der Harnblase, 1718

Dental Infection, Bacterial Infections, With Special Reference to Dental Practice, 439

Dental Infections, 440

Destot, E., Injuries of Wrist, 62

de Wesselow, O. L. V., Modern Views on the Toxæmias of Pregnancy, 507

Dewey, K. W., Pathology of Mouth, 1388

Diabetes Mellitus, Treatment, Insulin. Part I. Physiology. Part II. Clinical Section, 1236

Diagnosis, Medical, 1789

Dickson, W. E. C., Textbook of Pathology, General and Special, 1310

Diet, Everyday Meals for Invalids, 1998

Disease, Insects and Disease of Man, 1094

Driver, J. E., Text-Book of Pharmaceutical Chemistry, 1858

Ear, Nose and Throat, Handbuch der Hals-Nasen-Ohren-Heilkunde. Zweiter Band. Zweiter Teil. Die Krankheiten der Luftwege und der Mundhöhle, 1717

Ears and the Man, 1155

Education, Medical, Methods and Problems of, 141

Ekzem und Urtikaria, 222

Ellinger, A., Handbuch der Normalen und Pathologischen Physiologie, Zweiter Band, Atmung, 803

Elschnig, A., Handbuch der Gesamten Augenheilkunde. Lieferung 488-490. I. Teil, I. Band, 2 Apt., Kapital III. Mikroskopische Anatomie der Regenbogenhaut, 1789

Elwyn, A., Bailey's Text-Book of Histology, 804

Embden, G., Handbuch der Normalen und Pathologischen Physiologie, Zweiter Band Atmung, 803

Endocrine Medicine, Principles and Practice of, 973

Endocrine Organs at Various Ages, Histology of, 438

Entomology, General Textbook of, 1998

Erskine, M., Sex at Choice, 508

Eugenics, Evolution, and Genetics, 1859

Everyday Meals for Invalids, 1998

Evolution and Life, 1310

Evolution, Genetics and Eugenics, 1859

Eye, Diseases of, 1387

Eye, Living, Slit-Lamp Microscopy of, 439

Fairhall, L. T., Lead Poisoning, 1311

Fales, H. L., Scientific Nutrition in Infancy and Early Childhood, 299

Felsen, J., Tumors of Colon and Rectum: Their Pathology, Diagnosis and Treatment, 1933

Ferenczi, S., Psychoanalysis and Psychic Disorder of General Paresis, 140

Fermentations, Industrial, 1789

Fifield, L. R., Minor Surgery, 508

Fishbein, M., Art and Practice of Medical Writing, 222

Floyd, R., Kidney Disease, 1387

Fox, C., Insects and Disease of Man, 1094

Fresh Air and Ventilation, 1475

Fulkerson, L. L., Gynecologic Urology, 1154

García-Díaz, G., Étude anaiytique et synthétique de la sympathectomie périartérielle appliquée au traitement des ulcères chroniques des membres inférieurs, 1475

Genetics, Evolution and Eugenics, 1859

Genito-Urinary Tract, Die Chirurgie. Lieferung 5, and VI. 1236

Gods, Healing Gods of Ancient Civilizations, 61

Gonorrhea, Die Geschlechtskrankheiten, 1647

Gordon, M. H., Studies of Viruses of Vaccinia and Variola, 896

Gottlieb, R., Die Experimentelle Pharmakologie als Grundlage der Arzneibehandlung, 439

Gottstein, A., Handbuch der sozialen hygiene und Gesundheitsfürsorge, Erster Band, Grundlagen und Methoden, 1094

Gout, William Cadogan's Essay on, 1998

Greaves, E. O., Bacteria in Relation to Soil Fertility, 804

Greaves, J. E., Bacteria in Relation to Soil Fertility, 804

Greene, C. L., Medical Diagnosis, 1789

Guillain, G., Études neurologiques, 370

Gynécologie chirurgical, genito-statique, 575

Hagan, W. A., Laboratory Manual in General and Pathogenic Bacteriology and Immunity, 61

Hair, Your Hair and Your Health, 1858

Hall, P., Ultra-Violet Rays in Treatment and Cure of Disease, 1474

Hamilton, C., Introduction to Objective Psychopathology, 646

Harrison, L. W., Modern Diagnosis and Treatment of Syphilis, Chancroid and Gonorrhœa, 897

Health, Public, Manual of, and Hygiene, 1388

Health, Your Hair and Your Health, 1858

Heart Beat, Clinical Disorders of, 1093

Heller, P. T., Grundriss der Heilpädogogik, 1388

Henke, F., Handbuch der speziellen Pathologischen Anatomie und Histologie. Zwölfter Band, 1998

Henry, G. W., Essentials of Psychiatry, 574

Hess, J. H., Feeding and Nutritional Disorders in Infancy and Childhood, 140

Heyer, R., Psychogenese und Psychotherapie körperlicher Symptome, 61

BOOK NOTICES—Continued

Hill, A. V., Muscular Activity (The Herter Lectures for 1924), 574
Hirsch, C., Lehrbuch der Lokalanästhesie des Ohres und der Oberen Luftund Speisewege, 1310
Histology, Bailey's Text-Book of, 804
Histologie, Handbuch der speziellen pathologischen Anatomie und Histologie. Zwölfter Band, 1998
History of Medicine, Volume II. Part I., 1998
Hoepfner, T., Psychogenese und Psychotherapie körperlicher Symptome, 61
Hoffmann, H., Abhandlungen aus der Neurologie, Psychiatrie, Psychologie und ihren Grenzgebieten. Heft 32. Familienpsychosen im schizophrenen Erbkreis (Psychosen bei den Eltern von Dementia Praecox-Kranken), 1237
Hogben, L. T., Comparative Physiology, 1647
Hollós, S., Psychoanalysis and Psychic Disorder of General Paresis, 140
Holmes, S. J., Life and Evolution, 1310
Hutchison, R., Index of Treatment by Various Writers, 575
Hygiene, Manual of, and Public Health, 1388
Imms, A. D., General Textbook of Entomology, 1998
Immunisation locale pansements spécifiques, 508
Immunology, Applied, and Bacteriology for Nurses, 1718
Industrial Fermentations, 1789
Infants, Des Kindes Ernährung, Ernährungsstörungen und Ernährungstherapie, Band II, Teil I, 298
Infants, Feeding and Nutritional Disorders in Infancy and Childhood, 140
Infants, Simplifying Motherhood, 370
Infections, Bacterial, with Special Reference to Dental Practice, 439
Infections, Dental Infections, 440
Infectious Diseases, Acute, 1237
Insanity, The Bereft, 575
Insects and Disease of Man, 1094
Insulin, Part I. Physiology. Part II. Clinical Section, 1236
Internal Medicine, Lehrbuch der speziellen Pathologie und Therapie der inneren Krankheiten, Volume I, 1857
Intestinal Tuberculosis, 1857
Ireland, M. W., Medical Department of United States Army in World War, Volume XV, 713
Iris, Handbuch der Gesamten Augenheilkunde. Lieferung 488-490. I. Teil, I. Band, 2 Abt., Kapital III. Mikroskopische Anatomie der Regenbogenhaut, 1789
Jackson, J. H., Eine Studie über Krämpfe (A Study of Convulsions), 1573
Jayne, W. A., Healing Gods of Ancient Civilizations, 61
Kahler, O., Handbuch der Hals-Nasen-Ohren-Heilkunde. Zweiter Band. Zweiter Teil. Die Krankheiten der Luftwege und der Mundhöhle, 1717
Keller, A., Des Kindes Ernährung, Ernährungsstörungen und Ernährungstherapie, Band II, Teil I, 298
Kettle, E. H., Pathology of Tumours, 1311
Kidney Disease, 1387
Kidney Disease, Treatment of, and High Blood Pressure, Practical Manual for Physicians and Patients, 895
Kidney, Pathologie und Klinik der Nierenerkrankungen (Nephrosen, Nephritiden und Schrumpfnieren), 896
Kilduffe, R. A., Bacteriology and Applied Immunology for Nurses, 1718
Kirkpatrick, H., Diseases of Eye, 1387
Kirschner, M., Die Chirurgie, Lieferung 4, Band I, 140
Kirschner, M., Die Chirurgie, Lieferung 5, Band VI, 1236
Kleinberg, S., Scoliosis, 1093
Klemperer, F., Die Lungentuberkulose, ihre Pathogenese, Diagnostik und Behandlung, 507
Koby, F. E., Slit-Lamp Microscopy of Living Eye, 439
Kohnsamm, G. L. S., Radiological Examination of Male Urethra, 896
Kopetzky, S. J., Otologic Surgery, 298
Lathrop, E. C., Allen's Commercial Organic Analysis. Volume IV, 1858
Laubry, C., Les syndromes d'aortite postérieure (aortite thoracique, aortite abdominale), 223
Lead Poisoning, 1311
Lecène, P., Thérapeutique chirurgicale. Tome III. Abdomen et organes génito-urinaires, 1858
Lehman, A., Ears and the Man, 1155
Leriche, R., Thérapeutique chirurgicale. Tome III. Abdomen et organes génito-urinaires, 1858
Leslie, R. M., Pneumonia, Its Pathology, Diagnosis, Prognosis and Treatment, 298
Leusden, F. P., Chirurgische Operationslehre für Studierende und Aerzte, 575
Levin, O. L., Your Hair and Your Health, 1858
Lewis, T., Clinical Disorders of Heart Beat, 1093
Lhermitte, J., Les fondements biologiques de la psychologie, 1154
Lilienthal, H., Thoracic Surgery, 1474
Liver, Diagnostische und Therapeutische Irrtümer und deren Verhütung Innere Medizin, Sechzehntes Heft. Die Krankheiten der Leber mit Einschlusz der hepatolienalen Affektionen, 1094
Lloyd, R. I., Visual Field Studies, 1647
Locy, W. A., Growth of Biology, 646
Löhe, H., Die Geschlechtskrankheiten, 1647
Love, A. G., Medical Department of United States Army in World War, Volume XV; Medical and Casualty Statistics, 713
Lubarsch, O., Handbuch der speziellen pathologischen Anatomie und Histologie. Zwölfter Band, 1998
Lubosch, W., Grundriss der Wissenschaftlichen Anatomie, 1093
Luckett, W. H., Skull Fractures: Roentgenologically Considered, 369
Ludy, J. B., Atlas of Diseases of Skin, with Diagnostic and Therapeutic Notes, 647
Lynch, J. M., Tumors of Colon and Rectum; Their Pathology, Diagnosis and Treatment, 1933
McLean, S., Scientific Nutrition in Infancy and Early Childhood, 299
Macleod, J. J. R., Insulin. Part I. Physiology, 1236
McMillan, M., Massage and Therapeutic Exercise, 574
Man: His Making and Unmaking, 1389
Mankind, Natural Increase of, 1789
Maplestone, P. A., Nematode Parasites of Vertebrates, 1573
Massage and Therapeutic Exercise, 574
Mayer, A., Psychogenese und Psychotherapie körperlicher Symptome, 61
Meakins, J. C., Respiratory Function in Disease, 1647
Medical Diagnosis, 1789
Medical Writing, Art and Practice of, 222
Medicine, American, Who's Who in, 647
Medicine, History of, Volume II. Part I, 1998
Medicine, Synopsis of, 713
Metabolism, Die Ernährung und Stoffwechselkrankheiten, 713
Meyer, A., Birth Control, 507
Meyer, H. H., Die Experimentelle Pharmakologie als Grundlage der Arzneibehandlung, 439
Micro-Filaments, 1310
Minor, A. S., Lead Poisoning, 1311
Mitchell, C. A., Allen's Commercial Organic Analysis. Volume IV, 1858
Moore, R. F., Medical Ophthalmology, 1094
Moore, V. A., Laboratory Manual in General and Pathogenic Bacteriology and Immunity, 61
Moorehead, F. B., Pathology of Mouth, 1388
Morison, R., Abdominal and Pelvic Surgery for Practitioners, 1311
Mosquitoes, Bats and Dollars, 439
Mougeot, A., Les syndromes d'aortite postérieure (aortite thoracique, aortite abdominale), 223
Mouth, Pathology of, 1388
Moynihan, B., Abdominal Operations, 1933
Munk, F., Pathologie und Klinik der Nierenerkrankungen (Nephrosen, Nephritiden und Schrumpfnieren), 896
Muscular Activity (The Herter Lectures for 1924), 574
Muse, M. B., Text-Book of Psychology for Nurses, 1647
Mythology, Healing Gods of Ancient Civilizations, 61
Necropsy, Post-Mortem Appearances, 803
Nematode Parasites of Vertebrates, 1573
Nervous Diseases, Text-Book of, 140
Neuburger, M., History of Medicine, Volume II. Part I, 1998
Neurologiques, etudes, 370
Newman, H. H., Evolution, Genetics and Eugenics, 1859
Nicloux, M., L'oxyde de carbone et l'intoxication oxycarbonique, 897
Nordmann, O., Die Chirurgie, Lieferung 4. Band I, 140
Nordmann, O., Die Chirurgie, Lieferung 5, Band VI, 1236
Nordmann, O., Praktikum der Chirurgie, 973
Nose, Handbuch der Hals-Nasen-Ohren-Heilkunde. Zweiter Band. Zweiter Teil. Die Krankheiten der Luftwege und der Mundhöhle, 1717
Nose, Plastic Surgery of, 1388
Nose, Throat and Ear, Diseases of, Medical and Surgical, 222
Nurses, Bacteriology and Applied Immunology for, 1718
Nurses, Text-Book of Psychology for, 1647
Nutrition, Scientific, in Infancy and Early Childhood, 299
Nutritional Diseases, Des Kindes Ernährung, Ernährungsstörungen und Ernährungstherapie, 298
Nystagmus, Das Augenzittern als Gehirnstrahlung, 1154
Ohm, J., Das Augenzittern als Gehirnstrahlung, 1154
Ophthalmology, Medical, 1094
Osteodystrophia fibrosa, Pathologischanatomische Studien über die Osteodystrophia fibrosa, 1237
Otologic Surgery, 298
Otorhinolaryngology, Handbuch der Hals-Nasen-Ohren-Heilkunde. Zweiter Band. Zweiter Teil. Die Krankheiten der Luftwege und der Mundhöhle, 1717
Otorhinolaryngology, Diagnostische und therapeutische Irrtümer und deren Verhütung Chirurgie. Siebentes Heft. Verletzungen und chirurgische Krankheiten der Mund- und Rachenhöhle des Halses einshl. der Speicheldrüsen, der Speiseröhre, des Kehlkopfes und der Trachea, 1997
Paralysis, Abhandlungen aus der Neurologie Psychiatrie, Psychologie und ihren Grenzgebieten, Heft 34. Der heutigen Stand der Behandlung der progressiven Paralyse, 1311
Paralysis, Psychoanalysis and Psychic Disorder of General Paresis, 140
Parasitic Protozoa of Man, Manual of, 1788
Parisot, J., Troubles de la fonction gastrique et syndromes associés chez les tuberculeux pulmonaires, 974
Parrisius, W., Röntgenbehandlung innerer Krankheiten, 1788
Paterson, H. J., Cancer, 62
Pathologischen Physiologie, Handbuch der Normalen und, Zweiter Band. Atmung, 803
Pathology, Chemical, 1857
Pathology, Handbook of, 1237
Pathology, Textbook of, General and Special, 1310
Peck, A. W., Ears and the Man, 1155
Pediatrics, Clinical Study and Treatment of Sick Children, 1154
Pediatrics, Diseases of Infants and Children, 1093
Pediatrics, Kinderheilkunde, Band VIII, 897
Pharmaceutical Chemistry, Text-Book of, 1858
Pharmacy, Principles of, 1387
Pharmakologie, Experimentelle, als Grundlage der Arzneibehandlung, 439
Physical Therapy, Massage and Therapeutic Exercise, 574
Physiology, Comparative, 1647
Physiology, Elementary Manual of, 440
Physiotherapy, 1998
Pneumonia, Its Pathology, Diagnosis, Prognosis and Treatment, 298
Post-Mortem Appearances, 803
Pototzky, C., Psychogenese und Psychotherapie körperlicher Symptome, 61
Pregnancy, Modern Views on the Toxæmias of, 507
Preventive Medicine, 223
Price, W. A., Dental Infections, 440
Printy, E. A., Surgical Technique, 506
Psychiatry, Essentials of, 574
Psychoanalysis and Psychic Disorder of General Paresis, 140
Psychogenese und Psychotherapie körperlicher Symptome, 61
Psychology for Nurses, Text-Book of, 1647
Psychology, Les fondements biologiques de la psychologie, 1154
Psychopathology, Introduction to Objective Psychopathology, 646
Public Health Law, 1718
Pulay, E., Ekzem und Urtikaria, 222
Rectum, Tumors of, and Colon; Their Pathology, Diagnosis and Treatment, 1933
Respiration, Handbuch der Normalen und Pathologischen Physiologie, 803
Respiratory Function in Disease, 1647
Reznikoff, P., Lead Poisoning, 1311
Richardson, F. H., Simplifying Motherhood, 370
Riehl, G., Atlas of Disease of Skin: With Diagnostic and Therapeutic Notes, 647
Rietschel, H., Kinderheilkunde, Band VIII, 897
Röntgenbehandlung innerer Krankheiten, 1788
Rolleston, J. R., Acute Infectious Diseases, 1237
Rosenow, G., Blutkrankheiten, 896
Ross, J. M., Post-Mortem Appearances, 803
Rubrāh, J., William Cadogan [His Essay on Gout] 1998
Russell, E. H., Ultra-Violet Radiation and Actinotherapy, 575
Russell, W. K., Ultra-Violet Radiation and Actinotherapy, 575
Ryall, E. C., Operative Cystoscopy, 1387
Sadtler, S. S., Allen's Commercial Organic Analysis. Volume IV, 1858
St. Andrews Institutes for Clinical Research, Reports of, 223
Samuelson, E. E., Ears and the Man, 1155
Schilder, P., Psychogenese und Psychotherapie körperlicher Symptome, 61
Schlesinger, E., Das Wachstum des Kindes, 1387
Schlossmann, A., Handbuch der sozialen Hygiene und Gesundheitsfürsorge, Erster Band. Grundlagen und Methoden, 1094
Schwalbe, J., Diagnostische und Therapeutische Irrtümer und deren Verhütung Innere Medizin, Sechzehntes Heft. Die Krankheiten der Leber mit Einschlusz der hepatolienalen Affektionen, 1094
Schwarz, O., Psychogenese und Psychotherapie körperlicher Symptome, 61
Science and Modern World, 895
Scoliosis, 1093
Scott, G. G., Science of Biology, 1926
Serumtherapy, Handbuch der experimentellen Therapie Serum- und Chemotherapie, 1311
Sever, J. W., Text Book of Orthopedic Surgery for Students of Medicine, 222
Sex at Choice, 508

BOOK NOTICES—Continued

Seyfarth, C., Lehrbuch der speziellen Pathologie und Therapie der inneren Krankheiten. Volume I, 1857
Sheehan, J. E., Plastic Surgery of Nose, 1388
Sherren, J., Index of Treatment by Various Writers, 575
Shore, W. T., Trial of Thomas Neill Cream, 896
Simmons, G. H., Art and Practice of Medical Writing, 222
Sinus sphénoïdal, 62
Skin, Diseases of, Atlas of, with Diagnostic and Therapeutic Notes, 647
Skull Fractures: Roentgenologically Considered, 369
Smallpox, Studies of Viruses of Vaccinia and Variola, 896
Sobre-Casas, C., Gynécologie chirurgical, genitostatique, 575
Social Hygiene, Handbuch der sozialen Hygiene und Gesundheitsfürsorge; Erster Band: Grundlagen und Methoden, 1094
Soil Fertility, Bacteria in Relation to, 804
Spas, Some German Spas, 646
Spencer, H. R., Caesarean Section, 1997
Spine, curvature, Scoliosis, 1093
Spleen, Diagnostische und Therapeutische Irrtümer und deren Verhütung Innere Medizin. Sechzehntes Heft. Die Krankheiten der Leber mit Einschluss der hepatolienalen Affektionen, 1094
Statistical Analysis, 1647
Stenholm, T., Pathologisch-anatomische Studien über die Osteodystrophia fibrosa, 1237
Stewart, H. E., Physiotherapy, 1998
Stewart, W. H., Skull Fractures Roentgenologically Considered, 369
Stomach, Troubles de la fonction gastrique et syndromes associés chez les tuberculeux pulmonaires, 974
Strandberg, J., Psychogenese und Psychotherapie körperlicher Symptome, 61
Strong, O. S., Balley's Text-Book of Histology, 804
Strümpell, A., Lehrbuch der speziellen Pathologie und Therapie der inneren Krankheiten. Volume I, 1857
Sunlight, Artificial, and Its Therapeutic Uses, 1998
Surgery, Abdominal and Pelvic, for Practitioners, 1311
Surgery, Chirurgische Operationslehre für Studierende und Aerzte, 575
Surgery, Diagnostische und therapeutische Irrtümer und deren Verhütung Chirurgie. Siebentes Heft. Verletzungen und chirurgische Krankheiten der Mund- und Rachenhöhle, des Halses einschl. der Speicheldrüsen, der Speiseröhre, des Kehlkopfes und der Trachea, 1997
Surgery, Die Chirurgie, Lieferung 4, Band I, 140
Surgery, Die Chirurgie, Lieferung 5, Band VI, 1236
Surgery, Methods in, 1237
Surgery, Minor, 508
Surgery, Modern, General and Operative, 140
Surgery of Pulmonary Tuberculosis, 1717
Surgery, Orthopedic, Text Book of, for Students of Medicine, 222
Surgery, Otologic, 298
Surgery, Pitfalls of, 507
Surgery, Plastic, of Nose, 1388
Surgery, Praktikum der Chirurgie, 973
Surgery, Thérapeutique chirurgicale. Tome III. Abdomen et organes génito-urinaires, 1858
Surgery, Thoracic, 1474
Surgical Technique, 506
Sweeney, J. S., Natural Increase of Mankind, 1789
Sympathectomy, periarterial, Etude analytique et synthétique de la sympathectomie périartérielle appliquée au traitement des ulcères chroniques des membres inférieurs, 1475
Syphilis, Die Geschlechtskrankheiten, 1647
Teleky, L., Handbuch der sozialen Hygiene und Gesundheitsfürsorge, Erster Band, Grundlagen und Methoden, 1094
Terracol, J., Le sinus sphénoïdal, 62
Tétanie infantile, La tétanie infantile, 1237
Therapeutics, Index of Treatment by Various Writers, 575
Thompson, I. M., Elements of Surface Anatomy for Students of Medicine, 440
Thomson, L., Who's Who in American Medicine 1925, 647
Thomson, J., Clinical Study and Treatment of Sick Children, 1154
Thoracic Surgery, 1474
Tidy, H. L., Synopsis of Medicine, 713
Tobey, J. A., Public Health Law, 1718
Tremel, M., Everyday Meals for Invalids, 1998
Trial of Ronald True, 896
Trial of Thomas Neill Cream, 896
True, Ronald, Trial of, 896
Tuberculose pulmonaire, 647
Tuberculosis, Die Lungentuberkulose, ihre Pathogenese, Diagnostik und Behandlung, 507
Tuberculosis, Intestinal, 1857
Tuberculosis, Pulmonary, Modern Methods in Diagnosis and Treatment of, 973; [Peterson] 1995—C
Tuberculosis, Pulmonary, Surgery of, 1717
Tuberculosis, Troubles de la fonction gastrique et syndromes associés chez les tuberculeux pulmonaires, 974
Tumeurs du cerveau, 1932
Tumors of Colon and Rectum: Their Pathology, Diagnosis and Treatment, 1933
Tumours, Pathology of, 1311
Turner, G. G., Some Encouragements in Cancer Surgery, 508
Turpin, R. A., La tétanie infantile, 1237
Ulcers, Etude analytique et synthétique de la sympathectomie périartérielle appliquée au traitement des ulcères chroniques des membres inférieurs, 1475
Ultra-Violet Radiation and Actinotherapy, 575
Ultra-Violet Rays in Treatment and Cure of Disease, 1474
Umber, F., Ernährung und Stoffwechselkrankheiten, 713
United States Army, Medical Department of, in World War, Volume XV, Statistics, Medical and Casualty, 713
Urethra, Male, Radiological Examination of, 896
Urology, Gynecologic, 1154
Urtikaria und Ekzem, 222
Uterus, Tumeurs du cerveaux, 1932
Van Calcar, R. P., Die Ursache des Carcinoms, 1389
Venereal Diseases, Modern Diagnosis and Treatment of Syphilis, Chancroid and Gonorrhoea, 897
Ventilation, Fresh Air and, 1475
Viruses of Vaccinia and Variola, Studies of, 896
Visual Field Studies, 1647
Walser, J., Les syndromes d'aortite postérieure (aortite thoracique, aortite abdominale), 223
Wang, C. Y., Handbook of Pathology, 1237
Ward, R. DeC., Climates of United States, 646
Water Works Practice, 440
Wells, H. G., Chemical Pathology, 1857
Whitehead, A. N., Science and the Modern World, 896
Who's Who in American Medicine 1925, 647
Wingfield, R. C., Modern Methods in Diagnosis and Treatment of Pulmonary Tuberculosis, 973; [Peterson] 1995—C
Winslow, C.-E. A., Fresh Air and Ventilation, 1475
Wolff-Eisner, A., Handbuch der experimentellen Therapie Serum- und Chemotherapie, 1311
World War, Medical Department of United States Army in, Volume XV, Statistics, Casualty and Medical, 713
Woroblew, W., Methodik der Untersuchungen von Nervenelementen des makro- und makro-mikroskopischen Gebietes, Teil I, 1647
Wounds, Die Chirurgie, Lieferung 4, Band I, 140
Wrist, Injuries of, 62
Wyatt, J. M., Modern Views on the Toxæmias of Pregnancy, 507
Yorke, W., Nematode Parasites of Vertebrates, 1573
Zeller, S. A., The Bereft, 575
Zoology, Animals of Land and Sea, 647
Zumbusch, L. V., Atlas of Diseases of Skin: with Diagnostic and Therapeutic Notes, 647

C

CABOT, RICHARD C., ethics and medical profession, 954—E
Emmanuel Movement, Episcopal Church, [Paulsen] *1619
CACHETS, [Fantus] *951
CACTUS spines, toxic injury from, [Löwy] 1407
CADAVER: See also Necropsies
syphilis infection from, [Hoffmann] 1174—ab; 1701—E
CAFFEINE: See also Coffee
effect on blood urea nitrogen concentration, [Tashiro] 1168—ab
injection into cisterna, [Kulenkampff] 1811—ab
pharmacology, [Grossmann & Lusicky] 1877—ab
stimulates respiratory mechanism, [Gordon] 1727—ab
CAISSON DISEASE, hematomyelia in, 52
CAJOL: See Ramón y Cajol
CAKE and pies forever, 1773—E
CALCANEUM, unusual articulation, [Farr] *1128
CALCIFICATION: See also Bone, growth; Brain; Pleura
subcutaneous tissue, [Wilens & Derby] 977—ab
CALCIUM absorption from intestinal tract, [Kahn & Roe] *1761
chloride as diuretic, [Segal & White] 67—ab
chloride in therapeutics, [Piñeirua] 1490—ab
chloride treatment of effusions, [Oriani] 2004—ab
chloride with urea in preventing postoperative pneumonia, [Lindauer] 660—ab
content of placenta, [Wehefritz] 519—ab
deficiency in asthma and hay-fever, [Brown & Hunter] 446—ab
effect on metabolism, [Greenwald] 1318—ab
excretion vs. parathyroidectomy, [Greenwald & Gross] 448—ab
food-calcium, A. M. A. poster, 1714
in Blood: See Blood
ingested, effect on blood calcium, [Hjort] 70—ab
CALCIUM—Continued
ingestion, excessive, effect, [Denis & Corley] 1246—ab
lactate in ovary insufficiency [Crainicianu] 2004—ab
lactate hastens blood coagulation, 803
Loeser's Intravenous Solution of Calcium Chloride, 217—P
metabolism, [Greenwald] 1318—ab
need of, in blood clotting, early experiment, [Sollmann & von Oettingen] *898
salts vs. microbic autolysis, [Bordet] 1949—ab
therapy, metabolic aspects, [Briggs] 1654—ab
CALCULI: See Bladder; Gallbladder; Pericardium; etc.
CALLUS, molding, to correct hip joint deformity, [Abbott & Hostes] 1164—ab
CALVERT, THOMAS, Theosophy, [Paulsen] *1618
CANCER: See also Adenocarcinoma; Epithelioma; Nevus carcinoma; Sarcoma; Tumor, and under names of organs and regions
American Society for Control of Cancer, 1371
Association for Study and Combating of Cancer in Czechoslovak Republic, 133
biochemical reactions with, [Boyksen] 1877—ab
blood groups in, [Weltzner] 455—ab
blood in, hemagglutinins in, [Schiff] 1736—ab
blood in, [Tinozzi] 238—ab; [Daland] 979—ab
blood lactic acid in, [Schumacher] 1667—ab
blood sugar and, [Silberstein & others] 77—ab
blood, ultraviolet absorption spectrums of, [Stenstrom & Reinhard] 71—ab
cells, growth, under high oxygen pressure, [Fischer & Buch Andersen] 1176—ab
cells; histology and prognosis, [Böhm & Zweifel] 660—ab
cells, histophysiology, [Roskin] 238—ab
cells, metabolism, [Warburg] 384—ab
cells, sugar intensifies roentgen ray action on, 887
cells vs. radium, [Philipp] 810—ab
character of, [Bell] 231—ab
control, Italy, 705; 1147
Cure: See also Cancer, treatment
cure, Hoxide Cancer "Cure," 55—P
cure, spontaneous, 701
demography, [Renaud] 1170—ab
Diagnosis: See also Cancer, serodiagnosis
diagnosis, chemical, [Fuchs] 316—ab
diagnosis, early, [Michell] 1733—ab
diet and, [Ludwig] 1257—ab; [Charles] 1399—ab
erythrocyte production in, vs. roentgen rays, [Isaacs] 1159—ab
Etiology: See also Cancer, parasitic origin
etiology, 963; 1378; [Gye] 1812—ab
etiology, somatic, [Crowther] 984—ab
etiology, systemic factors, [Crowe] 1399—ab
etiology, trauma, [Mock & Ellis] *257; 1229
experimental, [Erdmann] 1406—ab; [Toriumi] 1811—ab
exploratory excision, [Ludwig] 1325—ab
families, [Pfeiffer] 75—ab; [Slye] *1599
graduate course, at Strasbourg, 1560
growth and endocrines, [Eisner] 1257—ab
growth and food, [Ludwig] 1257—ab
growth, dextrose enhances, [Rondoni] 1590—ab
gynecologic research, [Greil] 159—ab
heredity, [Pfeiffer] 75—ab; [Slye] *1599
history; cancer at Paris in 1826, [Menetrier] 1322—ab
history, first case reported in Havana, [Le Roy] 1588—ab
in Australia, 631—ab
in Massachusetts, [Nichols & others] 1317—ab
in scar tissue, [Johnson] 1244—ab
incidence near bakeries and other places where rats abound, [Meyer] 1307—C
industrial, 789; 963; 1229; [Meyer] 1307—C
is it increasing? 1924
lectures on, Milan, 1710
melanic, [Gouzález] 1405—ab
meningitis carcinomatosa, [Wigham] 1662—ab
metastases, [Metzger] 1810—ab
metastases from breast to bones, [Meyerding & others] 228—ab; [Giles] 304—ab
metastases from breast to heart, [Kapsinow] 1244—ab
metastases from cecum to umbilicus, [Head] 1660—ab
metastases from thyroid to bones, [Ferrero & Sacerdote] 381—ab
metastases, mechanism, [Burrows] 1863—ab
metastatic miliary, of central nervous system, [Lewis] 375—ab
metastatic testicular, roentgenotherapy, [Ullmann] 306—ab
mortality and social status, Glasgow, [Young] 1662—ab
mortality in Copenhagen, [Heiberg] 654—ab
mule spinners', cause of, 1780
niche in, [Presser] 1876—ab
pain in, relief for, [Grant] *173
parasitic origin, [Vinzent] 1488—ab; [Blumenthal] 1589—ab; 1780
problem and radium therapy progress, 1561
prognosis and histology, [Böhm & Zweifel] 660—ab
radiotherapy, [Schreiner & Brown] 1723—ab; [Fürst] 1805—ab

CANCER—Continued
rat, endocrines with, [Toriumi] **1811—ab**
research, [Domagk] 455—ab; [Gilford] 1803—ab
roentgenotherapy, [Hazen] 71—ab
serodiagnosis, [Michell] 1733—ab
serodiagnosis, Abderhalden test, [Volkmann] 1952—ab
serodiagnosis, Botelho test, [Fichera] 656—ab: [Hartmann] 1948—ab
serodiagnosis, photochemical, [Bültemann] 1175—ab
serodiagnosis, Roffo neutral red test, [Roffo & Rivarola] 519—ab; [Astraldi & Rivarola] 1102—ab; [Capizzano] 1806—ab; [Roffo] 1877—ab; (correction) 1956—ab
serodiagnosis; Salomon's test, [Roccavilla] 1663—ab
serodiagnosis, tanninn test, [Wigand] 1737—ab
spontaneous, in mice, incidence and inheritability, [Slye] **1599
statistics and war, [Kauffmann] 991—ab
tar, plasma ion balance in, [Rémond & others] 74—ab
tissue, no special affinity of radium for, [Lacassagne & Ferroux] 655—ab
tissue, surviving, biology of, [Louros] 728—ab
traumatic, [Mock & Ellis] **257; 1229
Treatment: See also Cancer, cure; Cancer, radiotherapy; Cancer, roentgenotherapy
treatment, Burnside's Purifico, 368
treatment, electrothermic, [Clark] **595
treatment, Koch's Cancer Antitoxin, 1469—P
treatment, lead, [Bell] 231—ab; [Coke & Cook] 1320—ab; [Bell & others] 1321—ab
treatment, margosa oil, [Chatterji] 232—ab
treatment, operative reduction of suprarenal tissue, [Stephan] 1952—ab
treatment, radium, 1708
tuberculosis and, [Centanni & Rezzesi] 1403—ab
virus, [Barnard] 495—ab; 1780
CANNABIS, cultivation opposed in Germany, [Joël] 1490—ab
CANTANI'S SIGN: See Aneurysm, aortic
CAPILLARIES, changes in polycythemia vera, [Brown & Giffin] 1576—ab
in pregnant, [Pischzek & Schmidt] 1591—ab
microscopy, in twins, [Mayer-List & Hübener] 455—ab
Pressure in: See Blood Pressure, capillary
structure and function, [Tannenberg] 1589—ab
CAPROKOL: See Hexylresorcinol
CAPSULES, [Fantus] **840
oil in, [Fantus] **950
CARBOHYDRATES: See also Sugar
cleavage, [Gottschalk] 454—ab
cleavage in liver, [Wohlgemuth & Sorochowitsch] 1874—ab
diets, high, in diabetes mellitus, [Sansum & others] 178
intestinal intolerance for, vs. overgrowth of gas bacillus, [Kendall] **737
Metabolism: See also Blood sugar; Dextrose; etc.
metabolism, [Holbøll & Fock] 238—ab; Holbøll] 1176—ab
metabolism and circulation, 353—E; [Cayori] 448—ab
metabolism in renal diabetes, 755—E
metabolism of infants with intestinal disorders, [Tisdall & others] 445—ab
metabolism of marantic infant, [Tisdall & others] 445—ab
metabolism vs. insulin, 200—E
metabolism vs. pancreas preparations orally, [Lammidge] 583—ab
metabolism vs. scopolamine, [McCowan & others] 1869—ab
metabolism vs. vegetative system, [Mirtovsky] 1958—ab
plague bacillus effect on, [Pons] 313—ab
ultraviolet rays effect on, [Bierry] 1731—ab
CARBON DIOXIDE inhalation in empyema, [Churchill] 1864—ab
CARBON MONOXIDE poisoning, [Hunter] 1728—ab
poisoning after ethylene anesthesia, [Sherman & others] **1765
poisoning from illuminating gas, [Leffmann] 1714—C
poisoning, gradual, in young children, [Stevens] **1201
poisoning, heart muscle after, [Gürich] 455—ab
poisoning, resuscitation from, 118—E
poisoning, treatment, air plus 5 per cent carbon dioxide, [Walton & others] 1654—ab
poisoning, treatment, bloodletting and transfusion, [Gordon-Watson] 311—ab
poisoning, treatment, oxygen-carbon dioxide, [Drinker] 307—ab
CARBON TETRACHLORIDE: See also under Uncinariasis
Carbon Tetrachloride-Mulford, 842
CARBONIC ACID NAUHEIM BATHS, 709; 1235
CARBUNCLE metastasis to prostate, [Stromінger] 1170—ab
treatment, [Edmunds] 1321—ab
treatment, protein, [Welrauk] 1227—ab
CARCINOMA: See Cancer
CARDIA: See Stomach
CARDIOSPASM: See under Stomach
CARDIOVASCULAR DISEASE in Veterans' Bureau hospitals, [Matz] 1583—ab
hypertensive, vs. toxemias of pregnancy, [Herrick & Corwin] 1793—ab
kidney function test in, [Lundsgaard & Moller] 1176—ab
rehabilitation in [Lahey & Hamilton] 1164—ab
surgical risk [Phelps] **1824
CARDIOVASCULAR SYSTEM, reactions in athletic and nonathletic girls, [Damez & others] **1429
surgery, supporting measures in, [Phelps] **1827
sympathetic nervous system and, [Mosser & Taylor] 1483—ab
tolerance for epinephrine, [Ricaldoni] 724—ab
CARNEGIE CORPORATION, report, 127
CARONIA Test; Virus: See Measles; Scarlet Fever
CAROTIN, significance, [Goebel & Stern] 454
CARRIERS: See also under names of diseases as Tetanus; Typhoid
insect carriers of disease, 714
protein, [Leidingham] 1586—ab
CARRION'S DISEASE: See Oroya Fever
CASEIN a diuretic, [Jaratzky] 1489—ab
CASTRATION: See also Sterilization, Sexual
hyperthyroidism and, [Khoör] 1175—ab
roentgen ray, and sclerodermia, [Schwarz] 1666—ab
CATALASE activity of oral mucous membrane, [Sollmann & Howard] 151—ab
CATARACT, Egyptian hallucinations, 132
naphthalene, [Michail & Vancea] 1665—ab
operation, best time for, [Sachs] 1668—ab
CATATONIA: See Dementia Praecox
CATHARTICS, damage from, in urticaria, [Lortat-Jacob] 725—ab
Isacen, [Einhorn & Rafsky] **1754; 1769
CATHETER, passage through tortuous ureter, [Lewis & Carroll] **1833
CATHOLIC CHURCH: See Roman Catholic Church
CAUDA EQUINA, tumors of, report of 2 cases, [Wolfsohn & Morrissey] **1828
CAUTERY, steam, [Souttar] 1803—ab
treatment of chronic endocervicitis, [Davis] **1763
CEANOTHYN not acceptable for N. N. R., 890—P
CECUM adenocarcinoma with metastases to umbilicus, [Head] 1600—ab
anomalous position, [Keaton] 653—ab
tuberculosis, [Larimore & Fisher] 2001—ab
CELIAC DISEASE of pancreatic origin, [Magni & Pirami] 1806—ab
CELLS: See also Blood, cells; Mitochondria; Phagocytes; etc.
action of rays on, [Gassul] 1736—ab
Dorothy Reed cell in lymphogranuloma, 1786
growth of, under high oxygen pressure, [Fischer & Buch Andersen] 1176—ab
mitoses, in tar cancer, [Teutschlaender & Schuster] 1810—ab
protoplasm and pathologic glia, [Bok] 992—ab
CEREBELLUM abscess, operation and recovery, [Goodyear] **268
cystic neuroglioma, [Perret] 1805—ab
internal ear and, [Wodak & Fischer] 315—ab
lesions, finger-nose test for, [Leiri] 1812—ab
CEREBROSPINAL FLUID: See also Xanthochromia
albumin in polyneuritis, [Thomas & Rendu] 586—ab
changes in serum sickness, [De Lavergne & Abel] 1664—ab
cholesterol in juvenile recurring acidosis, [Garcia del Diestro] 235—ab
escapes through nose in intracranial pressure, [Locke] 1654—ab
in epilepsy, [Patterson & Levi] 1655—ab
in uremia pathogenesis, [Becher] 918—ab
not oxytocic, [Shapiro] 1654—ab
in syphilitics, [Israelson & Krizman] 585—ab
pneumoencephalomyelography, [Liberson] 1723—ab
pressure, high, hypertonic solutions for [Pagniez] 380—ab
pressure vs. magnesium sulphate, [Morrissey] 718—ab
refractometric and viscosimetric indexes, [Levinson & Sherby] 1161—ab
sugar, diagnostic value, [Stome] 1097—ab
sugar in meningitis, [Zoeller] 155—ab
sugar in various diseases, [Levinson] 445—ab
test, [Bloch & Rosenfeld] 1589—ab
test, benzoin, with cerebral tumor, [Guillain & others] 234—ab
test, colloidal benzoin, in poliomyelitis, [Regan] 445—ab
test, colloidal gold curve in syphilis, [Wendt] 918—ab
test, colloidal gold, studies on, [Manheims & Bernhard] 720—ab
test, Pandy, [Starobinsky & Kaufmann] 1730—ab
uric acid, in meningitis, [Baumritter] 154—ab
CEREBRUM: See Brain
CERUMEN: See under Ear
CESAREAN SECTION after death, [Noltmann] 1257—ab
cicatrix, rupture, [Steinberg] 1257—ab
CESAREAN SECTION—Continued
for hemorrhage, [Smith] 805—ab
gonorrhea of eye in infant after, [Neumann] 1257—ab
in eczema, [Liepmann] 1257—ab
intraspinal anesthesia for, [Brindeau] 1486—ab
low transperitoneal, obstetrical future after, [Wetterwald] 1731—ab
repeated, [Lehoczky-Semmelweis] 520—ab
transperitoneal, [Polak] 1944—ab
uterus rupture after, [Wetterwald] 1591—ab
CHAGAS, CARLOS, visit of, 291
CHAGAS' DISEASE: See Trypanosomiasis
CHANCRE, histology, [Puente] 74—ab
of cervix, [Cron] 1797—ab
pathology, [Golay] 313—ab
CHANCROID treatment, Nicolle's vaccine, 361; [Laederich & Weill-Spire] 724—ab
chancroidal ulcers, antimony and potassium tartrate solutions for, [Rupel] **544
intra-urethral, [Goodman] 1942—ab
CHANNEL FEVER: See Fever
CHARCOAL, atropinized, for spastic constipation, [Golffon] 451—ab
CHARCOT'S DISEASE: See Sclerosis, multiple
CHARITY HOSPITALS: See Hospitals, charitable
CHAUFFEURS: See under Automobile
CHAULMOOGRA OIL: See Leprosy
CHEESE, poisonous, 51
CHEMICALS, eye-wash for removing, 1472
CHEMISTRY, recent contributions to medecine, 1838—E
CHEMOTHERAPY, bacterial, [Raiziss & others] 970—ab
of infections, [Saxl & others] 1325—ab
intravenous, in urinary infections, [Braasch & Bumpus] 1942—ab
CHENOPODIUM oil, death from, [Suchanka] 1175—ab
CHEST: See Thorax
CHICAGO MEDICAL SOCIETY, rules for Information Bureau, 491
resolutions on public health officials, [Winslow] 57—C
CHICKENPOX, alastrim and smallpox, 598
fatal, [Debré & others] 450—ab
first described by Heberden in 1767, 999—ab
herpes zoster and, [Netter & Urbain] 1322—ab
lesions, nuclear inclusions in, [Rivers] 1247—ab
myelitis, [Krabbe] 1165—ab
scariatinal eruption after, [Herderschee] 522—ab
CHILD HEALTH DAY; rights of children, 1223
CHILDREN: See also under Delinquency; Infants
family placement, in country, [Vonessen] 237—ab
growth, Czechoslovakia, 967
growth vs. hookworm, [Smillie & Augustine] 908—ab
growth vs. vitamin A group, [Wendt] 384—ab
intuitive capacity to understand spoken language, 1781
Malnutrition: See under Appetite; Nutrition
mental development, determination, 1309
outing for, 1086
overburdening school children, [Junge] 1668—ab
welfare; Child Health Day, 1223
welfare institute, Pan-American, 427
CHILOMASTIX mesnili on lettuce, [Dickle] 58—C
CHINA MEDICAL ASSOCIATION, 1779
CHINESE, adenoid and tonsillar tuberculosis among, [Korns] 152—ab
appendicitis among, [Corbon] 1320—ab
blood pressure of, [Kilbourn] 1320—ab
medical sayings and proverbs, 475—ab; 674—ab; 876—ab; 1001—ab
nature of diseases occurring in, [Oppenheim] 910—ab
syphilis among, early history, [Eckstein] 1733—ab
CHIROPRACTIC: See also Medical Practice Acts
aliens admitted to study, 700
legislature to investigate, New York, 1460
not harmless, 489—E
"snapping" in backbone, 645
CHLORIDE concentration in glomerular urine, [Wearn & Richards] 448—ab
excretion after irradiation, [Engelhard & Sielmann] 587—ab
in diabetic acidosis, 752—E
metabolism in pernicious anemia, [Rioch & Cameron] 1655—ab
CHLORINE treatment vs. leukocyte count, [Allen] 151—ab
gas, low concentrations, industrial poisoning from, [McCord] **1687
CHLOROCODON whiteii, pharmacology, [Dilling] 906—ab
CHLOROFORM Anesthesia: See Anesthesia
inhalation with failing fetal heart, [Willkomm] 455—ab
sensitization of medulla for cocaine, [Bardier & Stillmunkès] 1323—ab
CHLOROMA, [Brannan] 1656—ab
CHLOROSIS, menstrual complication, [Zadik] 78—ab
of pregnancy, [Esch] 1810—ab
CHOLAGOGUES: See Bile, secretion

CHOLANGEITIS: See Bile Ducts, Inflammation
CHOLECYSTITIS: See Gallbladder, Inflammation
CHOLECYSTOGASTROSTOMY for peptic ulcer, [Braithwaite] 1870—ab
CHOLECYSTOGRAPHY: See Gallbladder, roentgenography
CHOLELITHIASIS: See Gallbladder, calculi
CHOLERA in Japan, 498; 762
Infantum: See Diarrhea
CHOLESTEROL, clinical import, [Brandeis] 1502—ab
cholesterogenous property of spleen, [Abelous & Soula] 1664—ab
effect on wound healing [Berberich & Eliassow] 77—ab
in anemia treatment, [Escudero & Puchulu] 1103—ab
in Bile: See Bile
in Blood: See Blood
irradiated, in rickets, [Bills] 1248—ab; [Parsons] 1584—ab; [Gyorgy & others] 1876—ab
metabolism in infants, 629—E
metabolism in pregnancy, [Baumann & Holly] 1315—ab
rôle in lymph stasis, [Stenhouse] 1724—ab
stimulates hair growth, [Jaffé] 1667—ab
synthesis and hypercholesterolemia, [Weldman & Sunderman] 571—C
CHOLINE in paroxysmal tachycardia, [Stepp & Schlierbake] 78—ab
treatment of ileus, [Wolf & Canney] 1662—ab
CHONDROMA: See also Enchondroma
in capsule, [Fenger] 1258—ab
CHORDOMA, sacrococcygeal, [Stewart & Morin] 1098—ab; [Arguud & Lestrade] 1731—ab
CHOREA and epidemic poliomyelitis, [Estapé] 989—ab
treatment, [Dwyer] 1319—ab
treatment, arsphenamin, [Herrera] 157—ab
treatment, phenolbarbital causes bullous eruption, [Weber] 983—ab
CHORIO-EPITHELIOMA, [Bell] 231—ab
lutein cells and, [Herold] 1256—ab
CHRISTIAN SCIENCE, [Paulsen] *1520
practitioner sentenced for involuntary homicide, 1846
treatment, diphtheria fatal under, 1084
CHURCH MYSTICAL UNION, religious healing, [Paulsen] *1621
CHVOSTEK'S SIGN in older children, [Lombardi] 156—ab
CHYLURIA: See Urine
CICATRIX: See also Cesarean Section
postoperative, very late abscesses in, [Fisher & Stone] *1675
tissue, means to soften, [Stoeltzner] 384—ab
tissue, penis included in, [Salleraa] 656—ab
tissue, ulcers and cancers in, [Johnson] 1244—ab
CIGARET smoking effect on breast milk, 1787
CINCHONINE, value in malaria, 568
CINCHOPHEN in icterus neonatorum, [Slobozianu] 990—ab
CIRCLE of WILLIS, anomaly and aneurysm [Jacques] 1482—ab
CIRCULATION: See under Blood
CIRRHOSIS: See Bile Ducts; Liver
CISTERN PUNCTURE in advanced meningococcus meningitis, [Peet] *1818
CISTERNA, pituitary hormone in, [Jánossy & Horváth] 384—ab
resuscitation by injecting caffeine into, [Kulenkampff] 1811—ab
CLAVICLE, fractures, fixation, [Thomson] *1517
CLEAR-PLEX, 643—P
CLINICAL CONGRESS OF AMERICAN COLLEGE OF PHYSICIANS, 761
CLINICIAN of future, [Herrick] *1
CLINICS: See under Dermatology; Hospitals; Psychanalysis; Surgery; etc.
CLONORCHIASIS, tartar emetic in, [Reed & Wyckoff] 1725—ab
CLOSTRIDIUM botulinum: See Botulism
CLUBFOOT: See Foot Deformity
CLUBHAND: See Hand
COAL-MINES: See Mines
COAL-TAR odor, 1235
paints cause poisoning, [Kidston] 1400—ab
COCAINE, chloroform sensitization of medulla for, [Bardier & Stiffmunkès] 1323—ab
poisoning, [Tatum & others] 397—ab
COCKROACHES, 1931
COCO-QUININE, 37
COD-LIVER OIL, antirachitic power, [Hart & others] 69—ab
cod liver oil-water and rickets, [Reiling] 1258—ab
dose of, 1385
emulsified vs. unemulsified, vitamin potency, 645; [Anderson] 970—C
fluorescence, irradiation, [Becker] 810—ab
heart and, [Agduhr] 1492—ab
in rickets, limitations, 1912—E
in surgical tuberculosis, [Rhodes] 720—ab
irradiation with, [Carrick] 68—ab
Parke, Davis & Company's Standardized Cod Liver Oil, 1213
vitamin potency, 645; [Anderson] 670—C, [Holmes & Pigott] 1483—ab
COFFEE: See also Caffein
effects on sense acuity, [Allers & others] 1951—ab
COITUS: See Dyspareunia
COLDS, chlorine treatment vs. leukocyte count, [Allen] 151—ab
bacteriology, [Shibley & others] 1800—ab
prophylaxis, [Simey] 231—ab
COLEMAN DIET: See Diet
COLITIS and nervous disorder, [Savignac & Sarles] 517—ab
amebic, [Andersen] 1724—ab
ulcerative, [Grossfeld] 1406—ab
ulcerative, chronic, and pellagra, [Barnes] 1244—ab
ulcerative, chronic, etiology, [Bargen & Logan] 979—ab
ulcerative, chronic, in childhood, [Helmholz] 721—ab
ulcerative, colostomy for, [Hamilton] 225—ab
ulcerative, treatment, [Castex & Beretervide] 76—ab
COLLODIONOSIS, [Fantus] *117
sacs, bacteriophage in, [Zoeller & Manousakis] 74—ab
COLLOIDAL Benzoin Test: See Cerebrospinal Fluid, test
Gold Reaction: See Cerebrospinal Fluid, test
gold solution, titration, [Novick] 1724—ab
COLON cancer, [Plannett] 722—ab; [Mayo & Hendricks] 1579—ab
irritable, [Graves & Graves] 1867—ab
megacolon; false Hirschsprung's disease, [Vilton & Crucian] 235—ab
polyposis, [Coffey] 1579—ab
COLONIAL MEDICINE: See Medical Service
COLORIMETER microtest for nitrogen, [Grifols Roig & Hellmuth Hempel] 315—ab
COLOSTOMY belt, [Neely] *1210
for ulcerative colitis, [Hamilton] 225—ab
COLPOTERM secretion and gynecologic disease, [Ballin] 1104—ab
COLPITIS: See Vagina, Inflammation
COMA: See Diabetes Mellitus; Uremia
COMMONWEALTH FUND, report, 494
to construct rural hospitals, 635
COMPLEMENT FIXATION: See also under Syphilis; Tuberculosis; Wassermann Test; etc.
availability of rabbit serums for, [Pierret & Breton] 987—ab
bacteriophage and, [Flu] 318—ab
CONCENTRATED CULTURE OF BACILLUS COLI-ESS. P.D.&.C., 37
CONGRESS ON INDUSTRIAL MEDICINE, Geneon, 1637
CONGRESS, U. S., physicians in, 489—E
CONGRESSES: See also under Societies at end of letter S
medical, 1377
CONJUNCTIVA, nevocarcinoma, [Valude] 154—ab
wounds, suture material for, 1472
CONJUNCTIVITIS, gonococcal, after cesarean section, [Neumann] 1257—ab
swimming pool conjunctivitis, 966
tularemia with, 1253—ab
CONNECTICUT, medical legislation in, [Rowley] 1135—ab
CONSTIPATION: See also Intestines, stasis
cause of chronic abdominal pain in children, [Terud] 1661—ab
hypothyroidism cause of, [Oswald] 1873—ab; [Brown] 1937—ab
proctostasis and, [Strauss] 520—ab
spastic, atrophized charcoal in, [Golffon] 451—ab
CONSTITUTION, habitus and pituitary in children, [Glanzmann] 158—ab
hemolytic, 1552—E
motor function, mental characteristics and, [Gurewitsch] 1807—ab
natural resistance to infection and, [Spaeth] 1727—ab
CONSUMPTION: See Tuberculosis, Pulmonary
CONTAGIOUS DISEASES: See Infectious Diseases
CONTRACEPTION: See Birth Control
CONTRACT for services, construction of, 63—MI
CONTRACTION, Dupuytren's: See Muscles, contraction
CONTUSIONS, [Rusca] 314—ab
CONVULSIONS: See also Epilepsy; Hysteria
after cervical paravertebral anesthesia, [Römcke] 730—ab
blood chemical changes during, [Metcalf & Moriarty] 977—ab
fasting cause of, [Joseph] 1243—ab
hypoglycemia and, 1351—E
in cyclic vomiting, [Portú Pereyra] 989—ab
COPPER, "hooch," and "home brew," 1552—E
itch, 97
poisoning causes hemochromatosis, [Mallory] 1654—ab
COPROLITH: See Intestines, calculi
CORN kernel, vitamin in, [Croll & Mendel] 68—ab
CORNEA ulcers, galvanocautery for, [De Saint-Martin] 1488—ab
shield, [Adson & Schroeder] *1835
ulcus serpens, [Wessely] 588—ab
CORNELL UNIVERSITY, newspaper publicity regarding "adjustment cures" at, [Kerr] 1855—C
CORNS, soft, treatment, 220
CORPORA LUTEA SOLUBLE EXTRACT—P. D. & Co., 1440
CORPUS LUTEUM cells and chorio-epithelioma, [Herold] 1256—ab
CORPUS LUTEUM—Continued
extract in menopause, 1892
hormone, [Johnston & Gould] 1164—ab
hormone, contrast with female sex hormone, [Papanicolaou] *1422
Intravenously prevents irradiation nausea, [Lafferty & Phillips] 204—ab
necrosis, [Brannan & Cohen] 1164—ab
COSMETICS, A. M. A. resolution on, 1357
dermatology, [Goodman] *736
COSTA PROCAINE FORMALDEHYDE TEST: See Infectious Diseases
COUÉ, imagination in therapeutics, 1562; 1811—ab
COUTO, M., honors to, 1303
COW ITCH, treatment, 1386
COWLES, EDWARD, Body and Soul Clinic, [Paulsen] *1622
COWPOX virus plus tuberculin, inoculation with, [Moro & Keller] 1589—ab
COXA Plana: See Osteochondritis deformans juvenilis
Vara: See Hip Joint
CRAMPTON TEST: See Physical Efficiency tests
CRANIUM fractures, treatment, [Maclaire] *670
fracture, course of events in, [Hanson] *1689
injury: See also under Brain; Head
injury, lumbar puncture in, [Munro] 512—ab
roentgenoscopy, gargoyle position for, [Flecker] 516—ab
wounds, fate after trephining, [Béraud] 314—ab
CREATINE in Muscle: See Muscle, creatine
ingested, fate of, [Chanutin] 1318—ab
CREEPING ERUPTION, 1287—E
larva migrans, [Pomeroy] 447—ab
parasite in, [Kirby-Smith & others] 1316—ab
CREMATORY, improved, 1146
CRESOG not acceptable for N. N. R., 1713—P
CRIME concealment vs. death registration bill, England, 1463
insanity and, 360
sexual offenses against the young, 287
statistics, England, 1561
CRIMINALS, identifying his gun, 874—E
constitutional psychopathic inferiority, [Huddleson] *1960
sterilization, 1639
CRIPPLES, finding suitable employment for, 214
new law on care of, Prussia, 1564
CRYSTAL VIOLET, antiseptic value, [Ferguson] 153—ab
CRYSTALLOIDS, absorption from lower respiratory tract, [Corper] *1739
CULTS: See also Chiropractic; Christian Science; Osteopathy; etc.
in Asia Minor, 762
religious healing, [Paulsen] *1519, *1617, *1692
rise of mental therapy, 1841—ab
CUPPING, dry, effects of, 1085
CURAY LIGHT applicators, 971
CUSHNY, A. R., 1145
CUTIS VERTICIS GYRATA, [Sisson] *1126; [Bassoe] 1714—C
CYANIDE poisoning from shoe cleanser, [Ullmann] 1589—ab
CYANOSIS, paruxysmal, [Cibils Aguirre] 235—ab
CYESEDEMA: See Pregnancy, edema in
CYST: See also under names of organs and regions
Dermoid: See Dermoid Cyst
production, [Davis & Traut] *339
CYSTADENOMA of pancreas, [Carling & Hicks] 152—ab
CYSTINE causes nephrosis and nephritis, [Lignac] 318—ab
CYSTITIS: See Bladder, inflammation
CYSTOGRAMS: See under Bladder
CYSTOMA, ovarian, blood requirement, [Engelbrecht] 1669—ab
CZECH physicians' association, president, 967
physicians, directory, 1711

D

DACTYLITIS, syphilitic, [Lereboullet & others] 154—ab
DALE LABORATORIES, 642—P
DALHOUSIE UNIVERSITY, social medicine course in, [Boyer] 1571—ME
DALLAS SESSION: See under American Medical Association
DANCNG, metabolism in, [Grönholm & others] 386—ab
DANIN'S TEST: See Gonorrhea, diagnosis
DAWSON, on osteopaths, England, 1863
DEAFMUTES, anatomic changes in hearing apparatus, [Gray & Nelson] 984—ab
DEAFNESS: See also Hearing
from meningeneuritis of auditory nerve, [Ramadier] 1169—ab
hereditary, and marriage, 1635
partial, treatment, [Holender & Cottle] 1939—ab
partial, treatment, [Wodak] 1808—ab
treatment, Dale Laboratories, 642—P
DEATH, blister sign, [Villegas Ruiz] 157—ab
registration bill; safeguard against crime concealment, England, 1463
DECEREBRATION studies; labyrinth, [Davis & Pollock] 902—ab
Cheyne-Stokes respiration in, [Pachon & Delmas-Marsalet] 1919—ab

DECKER, J. W., diploma mill scandal, 121
DEFICIENCY DISEASE: See Beriberi; Scurvy; Pellagra; Vitamins
DEFORMITIES: See also Foot Deformity
from cerebral palsy, treatment, [Fyles] 306—ab
DEGKWITZ'S SERUM: See Measles, immunization
DEHYDRATION fever in breast fed, [Hirsch] 1407—ab
in children, [Mitchell] 1940—ab
keratitis from, [Campos] 235—ab
DELINQUENCY and insanity, 168—ab
juvenile, and epicritic control, 16—ab
visiting teachers' demonstrations, 359
DELIVERY: See Labor
DEMELIN'S FORCEPS D8: See under Labor
DEMENTIA PRAECOX, [Kure & Shimoda] 227—ab
aseptic meningitis and, [Barr & Barry] 1163—ab
blood cholesterol in, [Gibbs] 375—ab
in twins, [Parker] 1247—ab
self mutilation, [McAdoo] 229—ab
treatment, bulbocapnine, [Mella] 1654—ab
DEMOCRITUS, Hippocrates' visit to, [Van Gils] 1592—ab
DENGUE, transmission, 418—E
DENTAL HYGIENE: See Teeth
DENTISTRY, aid for persons of restricted means, 1086
Latin American Dental Congress, 1085
DENTITION: See Teeth, eruption
DEPARTMENT OF AGRICULTURE surveys rural hospitals, 427
DERMATITIS, copper itch, 971
due to mohair, [Rowe & Rogers] 306—ab
from back-sizing for rugs, 1956
from gasoline and naphtha, 1643
from wood turpentine, [McCord] *1979
jute, 1772—E
lacquer dermatitis, [Williams] 376—ab
trade dermatitis, 437
venenata, 59; [Oliver] 902—ab
DERMATOLOGY clinic in Groningen, 566
Congress of Dermatology and Syphilography, 50
cosmetic, [Goodman] *736
Italian society of, 1147
DERMATOSES: See Skin diseases
DERMOID CYST in young girls, [Pendleton] 1329—ab
DESNOS, E., death of, 136
DEXTROCARDIA: See Heart, transposition
DEXTROSE, Ampules Dextrose 50 per cent, 50 cc., 1213
as food, 628—E; [Wiley] 1306—C
brain broth—Rosenow, 1643
cancer and, [Rondoni] 1590—ab
diabetic requirement, 296
diabetic's behavior toward, [Pemberton & Cunningham] 379—ab
effects of, and insulin on acid-base balance in surgical diabetics, [Gibson] *1209
excretion in normal urine, [Blatherwick & others] 1247—ab
in vitro vs. insulin, 200—E
ingestion for spinal fluid hypertension, [Payniez] 380—ab
injections, capillaries after, [Weil] 521—ab
injections for pulmonary edema in pneumonia, [Latzel] 237—ab
injections in infectious diseases, [Latzel] 237—ab
injections, intravenous, [Meyer] 521—ab
injections vs. blood pressure and blood counts, [Wichels] 521—ab
insulin combined with, [Grunenberg] 1255—ab
intolerance in eczema, [Ayres] 306—ab
metabolism, disturbed, in pregnancy, [Labbé & Chevki] 1731—ab
metabolism in renal glycosuria, [Paullin] 1160—ab
plus insulin in excessive vomiting and in eclampsia, 557—E; [Titus] 969—C; [King] *1417
spasm reducing action of, [Handovsky] 521—ab
DIABETES, BRONZE: See Hemochromatosis
DIABETES INSIPIDUS from neurosyphilis, [Babonneix & Lhermitte] 808—ab
hypochloremic, [Veil] 587—ab
in infants, [Maranon & Bonilla] 905—ab
membranous bone defects and, [Thompson & others] 148—ab
osteitis fibrosa polycystica in, [Heard & others] 1159—ab
tuber cinereum and, [Sabrazès] 1732—ab
treatment, pituitary extract, [Waldorp] 1734—ab
DIABETES MELLITUS acidosis, chloride in, 752—E
acromegaly and, [John] 1863—ab
arthritis (infectious) and, [Schmitt & Adams] *535; [Jordan] 1090—C
behavior toward circulating glucose, [Pemberton & Cunningham] 379—ab
blood alkalinity in, [Foshay] 1160—ab
blood calcium in, [Kylin] 920—ab
blood cell concentration in, [Root & White] 1396—ab
Blood Fat in: See also Diabetes Mellitus, complications
blood fat vs. blood protein in, [Christensen] 80—ab
blood volumes in, [Foshay] 980—ab
DIABETES MELLITUS—Continued
cause of death in, [Root & Warren] 718—ab; [Beard] 1726—ab; [Wilder] 1867—ab
cholecystitis and, [Rieen] 1801—ab
coma and insulin, [Frissell & Hajek] *1903
coma, [Lorant] 1573—ab
coma, carbohydrates plus insulin in, [Bucka] 1255—ab
coma followed by uremic coma, [Merklen & others] 1486—ab
coma without ketonuria, [Argy] 652—ab
complications, gangrene; pneumonia, [Kiefer & others] 981—ab
complications, lipemia retinalis and fat embolism, [Bantin] *546
complications, marked lipemia, [Marchbanks] 806—ab; [White] 986—ab; [Warren & Root] 1479—ab
familial, [Kückens] 236—ab; [Kern] 980—ab
gastrojejunostomy in, [Leyton] 312—ab
glucose requirement, 296
glycosuria (benign) and, [Holst] 456—ab
glycosuria threshold in, [Faber] 522—ab
heart in, [Blitzsten & Schram] 979—ab
heredity in, [Kückens] 236—ab
hyperthyroidism and, [Dyas] 373—ab; [Wilder] 2000—ab
hypopituitarism and, [Johns] 69—ab
in children, insulin fractioning in, [Priesel & Wagner] 990—ab
in children, treatment, [Dennett] 721—ab
in infants, insulin in, [Bowcock & Wood] *104
insular tissue increased in child of diabetic, [Gray & Feemster] 1655—ab
insulin fractioning in children, [Priesel & Wagner] 990—ab
insulin in, [Banting] 386—ab; [Harrison] 986—ab; [Jordan] 1090—C; [Dietrich & others] 1589—ab; [Thompson] 1661—ab; [Labbé] 1730—ab; [Minkowski] 1736—ab; [Frissell & Haajk] *1903
insulin in, in infants, [Bowcock & Wood] *104
insulin in, in pregnancy, [Labbé & Courelaire] 154—ab; [Fitz & Murphy] 306—ab
insulin in, vs. exercise, [Lawrence] 1728—ab
insulin-resistant, [Frank] 1953—ab
levulose and fructogen formation, [Steinberg & Elberg] 384—ab
mechanism, [Sybrandy] 1592—ab
metabolism in, and exercise, [Richardson & Levine] 448—ab
metabolism problems, 137
mortality, increase, 894
necropsy findings in, [Wilder] 1867—ab
permeability and, [Wiechmann] 1171—ab
pregnancy and, [Labbé & Couvelaire] 154—ab; [Fitz & Murphy] 306—ab
protein reduction, 296
sequel to acute pancreatitis, [Dunn & others] 1485—ab
skin in, [Jürgensen & von Noorden] 384—ab
splenic lipoid-containing cells in, [Warren & Root] 1479—ab
status lymphaticus in, [Major & Helwig] *1766
surgery in, [Judd & others] *1107; [Gibson] *1209
toxemia, blood-urine concentration in, [Bulger & Peters] 980—ab
Treatment: See also Diabetes Mellitus, insulin in
treatment, blood fats during, [White] 986—ab
treatment, diathermy, [Bordier] 726—ab
treatment, dietetic, [Percival] 1586—ab
treatment, Eskip, 1641—P
treatment, high carbohydrate diets, [Sansum & others] *178
treatment, radium, [Seichiro] 656—ab
treatment, raw pancreas, [Neve] 1484—ab
treatment, shock, [Singer] 559—ab
treatment, simplicity in, [Rabinowitch] 225—ab
treatment, thoracic duct lymph, [Klug] 1953—ab
treatment, unwarranted therapeutic hopes, 1626—E
tuberculosis in, blood sugar control in, [Nadler] 902—ab
tuberculosis in, vs. para-insulin formation, [Lundberg] 318—ab
DIABETES, RENAL, carbohydrate utilization in, 755—E
glucose utilization in, [Paullin] 1160—ab
DIADERMIC ADMINISTRATION, [Pantus] *415
DIAGNOSIS: See also under names of specific diseases
blood pressure in, [Powell] 723—ab
diagnostic aid case, [Piercy] *1690
in orthopedic surgery, [Ober] *1813
laboratory methods in, [Andrews] 723—ab
odor emanating from the sick, 1850
DIAPHRAGM, relaxation, temporary, [Altschul] 728—ab
rupture, [Beall] 302—ab
DIARRHEA: See also Dysentery
cholera infantum, [Bratusch-Marrain] 658—ab
in children, [Zahorsky] 1581—ab
primary, treatment in breast-fed, [Bytsch] 1101—ab
stool, cytology, [Zahorsky] *112
treatment, tannins, [Gunn] 1168—ab
DIASTASE, in Blood: See Blood
in Urine: See Urine
DIATHERMY in aerophagy, [Bordier] 452—ab
in checking glycosuria, [Bordier] 726—ab
in gonorrhea, [Van Putte] 992—ab
in kidney diseases, [Kolischer & Jones] *1606
in neoplastic and allied diseases, [Clark] *595
in pelvic infections, [Cherry] *1745
in pylorospasm, [Tabler] 586—ab
in rectal stricture, [Bensaude & Marchand] 156—ab
surgical, [Döderlein] 727—ab
surgical, in cervical metritis, [Flandrin & Schil] 1872—ab
surgical, or endothermy, rendering it painless, [Tousey] *527
thyroid glycemia and, [Massa] 1253—ab
DIATHESIS, Hemorrhagic: See Hemophilia
neuro-arthritic, asthma in children, [Comby] 912—ab
neuro-arthritic; whooping cough, [Szontagh] 996—ab
DIAZO REACTION: See Tuberculosis, Pulmonary
DICK TEST: See also Scarlet Fever
in measles, [Kleinschmidt] 316—ab
DIENST'S PREGNANCY TEST, [Vogel] 1492—ab
DIET: See also Appetite; Food; Nutrition; Vitamins
calcium deficient vs. intestinal flora, [Hoffstadt & Johnson] 147—ab
cancer and, [Charles] 1399—ab
Coleman, in typhoid, [Sison & Ignacio] 1942—ab
concentrated, in pyloric valve stenosis, [Meagher] 910—ab
dietary needs, 505—ab
"dietotoxicity," [Mouriquand] 2004—ab
disease and, [Mellanby] 1584—ab
Fat in: See under Fat
hypertension and, in renal insufficiency, 1770—E
in stomach diseases, [Molnar & Porges] 158—ab
in tuberculosis, [Myers] 1581—ab
low in water and mineral content, use, [Keith & others] 1863—ab
milk-free, [Hindes] 1951—ab
minimum, 1923
Protein: See Protein
reproduction and, [Nelson & others] 1938—ab
Treatment: See Anemia, Pernicious; Diabetes Mellitus; Obesity; Pellagra; Peptic Ulcer; etc.
DIETETICS, Kelo Dietetic Laboratory, 1146
DIGESTION, blood changes during, [Morgulis] 1246—ab
disorders, pancreas treatment, [Leitner] 589—ab
erythrocyte fragility and, [Acél & Gál] 236—ab
salivary, in stomach, [Bergeim] 1161—ab; 1288—E
DIGESTIVE TRACT: See Gastro-Intestinal Tract
DIGITALIN, Elixir Digitalin Compound, 1383—P
DIGITALIS, [Samet & Tezner] 2006—ab
Digitalis Dispert, 1911
effect on ventricular premature contractions, [Otto & Gold] 1863—ab
in exophthalmic goiter, [Kark] 450—ab
Indian, [Chopra & De] 1870—ab
massive doses, [Gilchrist] 1166—ab
medication, [Cloetta] 1384—C; [Pardee] 1384—C
potency, [Ward] 2002—ab
principles, biologic analysis, [Krogh] 1670—ab
suppositories for hemorrhoids, [Sember] 77—ab
tincture vs. age, [Vanderhoof & Haskell] 649—ab
DIHYDROXYACETONE effect on blood sugar and glycosuria, [Mason] 2002—ab
DIJODTYROSIN and metabolism, [Beumer & Kornhuber] 159—ab
DILL, LAWRENCE (LORENZ) L., 1470—P
DIMMER, Professor, retires, 1638
DIPHTHERIA: See also Schick Test
Anatoxin: See Diphtheria, Immunization; Diphtheria, toxoid
Antitoxin: See also Diphtheria, treatment
antitoxin, antigenic properties, [Hartley] 2003—ab
antitoxin dosage, 138
antitoxin, intravenously, 1385
antitoxin, turpentine enhances action, [Pico & Ferrari] 74—ab
bacilli, coccoid formation, [Yarisawa] 1946—ab
bacilli, culture mediums, [Tchebotareva] 385—ab
bacilli, variation in, 557—E
bacilli, virulence, intracutaneous test for, [Lim] 449—ab
cast of bronchial tree, [Bly] *1833
experimental, heart disorders in, [Lutembacher] 516—ab
fatal, under Christian science treatment, 1084
following tonsillectomy, [Zingher] 977—ab
immunity, [Glenny] 654—ab
immunity, active, [Haldvogt] 1491—ab
immunization, active, [Bayer] 158—ab; [Glauzman] 385—ab; [Rolleston] 1946—ab
immunization, anaphylactic reactions after, [Stewart] *113; 1234

DIPHTHERIA—Continued
immunization, anatoxin, [Nasso] 452—ab; [Ponce de León] 1873—ab
immunization, anatoxin, during epidemic, [Zoeller] 1586—ab
immunization, with toxin detoxified with sodium ricinoleate, [Larson & Eder] ✱998
in children, [Ritossa] 382—ab
in European cities, ✱194; 202-E
laryngeal, [Bókay] 1254—ab; [Bly] ✱1833
laryngeal, treatment of, [Burghard] 1737—ab
mortality in large cities of U. S. in 1925, ✱1005; 1077—E
Nasal: See Nose
Schick test, [Haldvogl] 1491—ab
susceptibility, variations in, [Hamburger] 658—ab
toxin, antigenic properties, [Hartley] 2003—ab
toxin detoxified with sodium ricinoleate, [Larson & Eder] ✱998
toxin, nature, [Dernby] 1941—ab
toxin, production in Martin culture medium, [Schmidt] 313—ab
toxin with goat serum, 1092
toxin-antitoxin, anaphylactic reactions following, [Stewart] ✱113; 1234
toxin-antitoxin, and vaccination, 1092
toxoid, Arthus' phenomenon after, [Tzanck] 1252—ab
treatment, antitoxin, [Heckscher] 727—ab; 1670—ab; [MacIntyre] 1803—ab
wound, polyneuritis after, [Reinhold] 383—ab
DIPHYLLOBOTHRIUM LATUM: See under Tapeworm
DIPLOMA MILLS: See Licensure
DIRECTORY of Czechoslovak physicians, 1711
DISABILITY: See also Workmen's Compensation
partial, and industrial reeducation, 290
DISEASE and fatigue, 753—E
due to trauma, evidence, 142—MI
odor emanating from the sick, 1850
DISINFECTANTS: See also Antiseptics
experiments with, 1925
gas in, [Keyesser & Ornstein] 1589—ab
DISINFECTION: See also Fumigation
rat extermination and, 498
DISPENSARIES: See under names of diseases
DISTEMPER research, 1143
DIURESIS, diuretic action of calcium chloride, [Segal & White] 67—ab
diuretic action of casein, [Jarotzky] 1489—ab
diuretics, action on transplanted kidneys, [Holloway] 1247—ab
in cardiac edema, [Lambie] 910—ab
morphine effect on, [Porru] 2005—ab
phenol autointoxication and, [Binet & others] 1664—ab
pituitary extract effect on, [Labbé & others] 2004—ab
stomach secretion and, [Arnoldi & Schechter] 1952—ab
test, and theobromine, [Litzner] 1811—ab
test, fractional, in obese, [Vliolle] 155—ab
test, serum proteins in, [Lasch] 1667—ab
water, phosphate excretion in, [Havard & Reay] 1398—ab
DIVERTICULUM: See under names of organs as Bladder; Esophagus; Intestines
DIVINE SCIENCE; religious healing, [Paulsen] ✱1524
healer convicted, 1705
DIVORCE and latent syphilis, [Heller] 1174—ab
DOCHEZ SERUM: See Scarlet Fever, treatment
DONNAN'S MEMBRANE potential, [Janousek & Andres] 522—ab
DOSAGE, ascending, [Fantus] ✱1284
computation of "per cent" solutions, [Fantus] ✱1348
descending, [Fantus] ✱1285
dilution of dose before taking, [Fantus] ✱1348
dose calculation in prescribing, [Fantus] ✱1439
drop, [Fantus] ✱1284
measures, 422—E; [Hornback] 644—C; [Burnett] 892—C; [Fantus] ✱1347
of drugs, [Fantus] ✱1345, ✱1438
DOSIMETER: See Roentgenotherapy
DOUGLAS' POUCH exploratory puncture, in ectopic pregnancy, [Zeitlin] 1255—ab
tumor causes erythremia, [Barnes & others] 985—ab
DOUGLAS, THOMAS W., 1566—P
DOWIE'S work; religious healing, [Paulsen] ✱1695
DRAINAGE: See Duodenum; Gallbladder; etc.
DRESS as expression of sexual feeling, 1231
DRESSINGS, skin, sensitization from, [Golovanoff] 1252—ab
surgical wound, sterile paper towels for, [Woolsey] ✱1612
DROP DOSAGE, [Fantus] ✱1284
DROPS, volumetric measurement by, [Fildes & Smart] 2003—ab
DROPSY: See Ascites; Edema
DROWNING, 893
resuscitation, 58
DRUGGIST may sell malt tonic, 1141
not liable for prescription abuse, 124
DRUGS: See also Proprietaries
act, physician fined for violating, England, 1574
action increased by fractioning, [Gordonoff] 809—ab
action, Swedish research on, [Berkström] 234—ab
Addiction; See Morphine; Narcotics
antagonism and synergism, [Führer] 1667—ab
contributions of chemistry to medicine, 1838—E
Dosage: See Dosage
dangers of barbituric derivatives, declared, England, 1992
epiphenomena from, in syphilitics, [Abramowitz] 304—ab
Eruptions: See also under names of particular drugs
eruptions, [Caussade & others] 380—ab
furnishing and prescribing, [Meinicke] 1174—ab
liability of manufacturer to patient, 900—MI
liquid, varieties of, [Fantus] ✱1439
multiple intolerance for, in syphilis, [Gougerot] 1402—ab
samples, distribution, [Nice] 1931—C
subcutaneous tumors from injection of, 1230
DRUNKENNESS: See Alcoholism
DUCTLESS GLANDS: See Endocrines
DUCTUS ARTERIOSUS, patent, arteritis of, [Schlaepfer] 1863—ab
DUGDALE, FREDERICK, 1470—P
DUMBNESS with typhoid in children, [Debbas] 1663—ab
DUODENAL TUBE in cholelithiasis, [Tobias] 76—ab
administration, technic, [Fantus] ✱1691
tip for, [Einhorn] ✱1615; [Vischer] ✱1615; [Segal] 1930—C
DUODENUM cancer in diverticulum, [Morrison & Feldman] 375—ab
DUODENUM—Continued
contents, bilirubin concentration, [McClure & others] 149—ab
diverticula with ulcer, [Dickey] ✱815
diverticulum, cancer in, [Morrison & Feldman] 375—ab
drainage, 1303
Fistula: See Fistula
flora, [Löwenberg] 1736—ab
mesenteric root pressure on, [Robertson] 1869—ab
porocephalosis, [Riding] 1249—ab
retention and reverse motility, [Wheelon] ✱326
roentgen study, [Saraceni & others] 915—ab
roentgen study, by oral technic, [Chiray & others] 1100—ab
Surgery: See also Gastroduodenostomy
surgery, [Balfour] 1163—ab
surgery, duodenectomy for ulcer, [Pannett] 807—ab
surgery, thoracic access, [Kohler] 1172—ab
tumors, benign, [Willis & Lasersohn] 581—ab
DUPUYTREN'S CONTRACTION: See Muscles, contraction
DUSTING POWDERS, [Fantus] ✱114
DUTCH language, Germanisms in, [Schut] 1384—C
DWARFISM, congenital, [Jansen] 1324—ab
DYES: See also Acriflavine; Brilliant Green; Scarlet Red; etc.
shoe dye poisoning, [Patek] ✱944
disappearance from blood, [Wittgenstein & Krebs] 1490—ab
hair dye, 60; 1856
hair dye, injury from, 1993
intravenous use of, [Churchman] 802—C
therapy in bacterial infections, [Walker & Sweeney] 907—ab
therapy with mercury dyestuffs, [Raiziss & others] 907—ab
DYSENTERY: See also Diarrhea
Amebic: See also Amebiasis; Endamebiasis
amebic, in Canada, [Bates] 377—ab
amebic, thermal therapy in, [de Rivas] 979—ab
bacillary, [de Bellard] 157—ab
bacillary, castor oil in, [Boase] 584—ab
bacilli, [Lacy] 308—ab
bacilli in gallbladder, [Connal & Smith] 153—ab
in Haiti, [Dickens] 514—ab
in mental disease hospitals, [Hilliard] 584—ab
spirochetal, [Sáenz] 916—ab
toxoid, [Dumas & others] 1730—ab
DYSOSTOSIS: See Bone growth
DYSPAREUNIA in pregnancy, [Galant] 1256—ab
DYSPEPSIA, gassy indigestion, [Campbell] 1394—ab
hydrochloric acid and sodium bicarbonate in, [Apperly] 1947—ab
slight, [Weitz & Vollers] 1809—ab
DYSPITUITARISM: See Pituitary Body
DYSPNEA, mechanical, [Nissen & Cokkalis] 589—ab
cerebral, [Hess & Pollak] 1954—ab
paroxysmal, in syphilitic aortitis, [Keefer & Resnik] 1481—ab
DYSTONIA, deforming muscular, [Marotta] 453—ab
DYSTROPHY, adiposogenital, eunuchoid, [Fröhlich] 1324—ab
adiposogenital, brain in, [Kraus] 1736—ab
in infants, insulin in, [Texner & Ebel] 728—ab
muscular, [Bramwell] 232—ab

DEATHS

A

Abbott, Edward Hiram, 1712
Abernathy, Thomas Edward, 889
Abraham, K., 287
Adair, William Sherman, 890
Adams, Charles Augustus, 1088
Adams, Charles Francis, 1467
Adams, Thomas S., 365
Aiken, George Henry, 1712
Albright, Jacob Dessinger, 890
Alcorn, David Nicholas, 1468
Aldrich-Blake, Dame Louisa B., 427, 428
Alexander, Ernest L., 802
Alexander, James Frederic, 706
Alexander, Joseph C., 707
Alexander, Morris Ephraim, 569
Algire, Harry Cairnes, 569
Allard, Lorenzo D., 1713
Allen, Edward F., 1641
Allen, Harry Brookes, 1463
Allen, Oswald Stewart, 890
Allen, William Augusta, 293
Alley, Gordon T., 54
Alston, John Henry, 707
Altman, Owen Randolph, 969
Amdor, Franklin Pierce, 1928
Anderson, Hedley Leeming, 365
Anderson, John Moultrie, 434
Anderson, Monroe, 969
Anderson, William Edward, 1713
Appleby, Alexander Grier, 1581
Applewhite, Stephen M., 1640
Aronson, Charles, 1785
Ashe, Henry Pattison, 293
Attarian, Megerdich, 1641
Austin, Joshua H., 54
Austin, Orrin William Nash, 707
Autenrieth, W., 701
Avenia, Anthony John, 570
Axham, 1707
Ayer, Richard Gilbert, 1927
Ayers, Jack Harrison, 569

B

Baber, Charles T., 502
Bachman, Norman E., 707
Bacon, Anna Louise, 569
Baer, Philip William Otterbein, 293
Bagley, Charles, 889
Bailey, Bertram Franklin, 641
Bailey, Charles Hervey, 1088
Bailey, Eli Stillman, 1566
Bailey, Frederick Clark, 802
Bailey, Stephen Goodhue, 1928
Baker, Alonzo P., 1928
Baker, Charles Orrin, 54
Baker, Lewis L., 1382
Baker, William C., 1785
Baldwin, Frank Eugene, 1852
Baldwin, Frank M., 1640
Baldwin, Newton R., 1641
Ball, John, 54
Bandi, I., 1083
Banfield, Allen P., 1468
Banks, Sarah Gertrude, 434
Barcus, Paul J., 293
Barker, W. J., 1784
Bariocco, A., 1847
Barnes, John A., 1712
Barr, John Allen, 502
Barrett, William Walter, 1149
Barrick, Eli James, 641
Barry, Edward Loftus Hope, 706
Barsony, J., 1142
Bartel, J., 128
Bateman, Charles H., 570
Bates, Harold Edwards, 1640
Battles, Clarence P., 1566
Bauer, Charles, 1641
Baugh, William Franklin, 1382
Baughman, George Washington, 1382
Baun, Ernest William, 1713
Baxley, Haughton, 1927
Baxter, George O., 1088
Beamensderfer, John S., 968
Bean, James Frank, 434
Bean, William Hill, 1382
Beary, Eli Samuel, 1468
Beates, Henry, Jr., 1784
Bechtold, William George, 365
Becker, Mary L., 502
Beckman, Alvin, 1992
Beebe, William Smith, 890
Bell, Addison Key, 365
Bell, Richard Dana, 54
Bell, William David Morrison, 1784
Bennett, Albert Leonard, 1784
Bennett, John W., 890
Bennie, Robert, 1468
Benson, John, 1089
Benson, Russell Franklin, Jr., 1784
Berneike, Marion L. Rice, 1928
Berneike, Rudolph Albert, 1382
Berner, Louis E., 707
Berry, Franklin K., 1852
Bertholet, George Pierrard, 1852
Best, Warren W., 293
Biaggi, Tous y, 1300
Bickford, Harley G., 889
Bidwell, Horace Gilbert, 54
Bigelow, Orland, 1928
Bigelow, William Sanford, 969
Bigger, Isaac C., 1784
Biggs, Zack L., 217
Bilhaut, M., 287, 563
Bird, Edwin E., 501
Birdsall, George Asa, 217
Bishop, Baron D., 1641
Bixler, William Grant, 1306
Black, Caroline L., 968
Black, Lysander W., 802
Blackburn, James Thomas, 54
Blackstone, William Bryant, 293
Blagden, Alonzo Dexter, 1306
Blake, Irwin Willard, 570
Blanchard, Austin John, 1784
Blankenbaker, Omer Garfield, 889
Bledsoe, John, 969
Bliss, Jesse Leonti, 1468
Blodgett, John Hammond, 801
Blyholder, Caleb, 1089
Boatwright, Louis T., 1232
Boaz, Charles H., 1566
Bogart, Joseph Hegeman, 707
Bois-Reymond, C. du, 210
Bolton, John Henry, 570
Bonar, Charles William, 1785
Bond, Charles Wesley, 1641

Bonomo, Lorenzo, 1563
Boogher, Jesse Leland, 1784
Booth, Thomas L., 570
Borror, William Bruce, 1468
Bottomley, John Taylor, 134
Bourns, William Henry, 1785
Bowie, T. Hamilton C., 293
Bowman, Elmer E., 434
Boynton, William John, 1232
Braden, Samuel H., 641
Bradford, Edward Hickling, 1712
Brandon, Arthur M., 293
Branham, Henry Gwynn, 1784
Branson, Mary, 890
Brantley, Edwin Dickens, 969
Brechemin, Louis, 1149
Breidenbach, Carl Henry, 1306
Brewster, Arthur W., 434
Brewster, John Densmore, 569
Brian, Flora Matina Tanquary, 433
Bricker, Daniel Martin, 54
Bridgewater, Samuel Chambers, 365
Brigham, Frederick Lucian, 1785
Britt, Thomas F., 365
Britton, George T., 293
Broadway, Robert O., 365
Brooksher, William R., 1927
Brown, Casseday, Flora A., 707
Brown, Charles, 47
Brown, Henry Edward, 707
Brown, Marcus Leonidas, 134
Brownsill, Edith Sara, 1927
Brunner, William F., 365
Bryan, Emory P., 1382
Bryant, Jasper Franklin, 1641
Buckingham, George B., 1928
Budwig, Maurice, 1468
Buffington, Clinton G., 1149
Bugg, Samuel D., 434
Bullard, Clayton A., 1149
Bundren, George A., 570
Bunge, F., 1300
Bunker, Media Andrews, 293
Bunnell, Wilbert Pitkin, 292
Buran, Joseph, 502
Burch, Geiger A., 365
Burd, William J., 1088
Burdett, James Crowe, 1088
Burgess, Thomas J. W., 1088
Burleigh, John Livingston, 641
Burke, John Joseph, 1232
Burks, R. L., 434
Burleson, Ten Eyck Olmstead, 1784
Burnell, Francis Irwin, 1232
Burnett, Cecil Carl, 1852
Burnett, Charles T., 1992
Burns, Charles Walter, 135
Burtch, John Albert, 1382
Burton, William Edwin, 1232
Bush, Alice, 1468
Bushey, Harry Fred, 1232
Buxton, John W., 1382

C

Cady, Nelson Warner, 433
Cahall, Thomas V., 1640
Caldwell, Robert Wilson, 1712
Calhoun, Thomas G., 570
Calish, George W., 1785
Camak, David Hubbard, 217
Campbell, John B., 1149
Campbell, Norman S., 1305
Campbell, Robert C., 293
Canedy, Francis Joel, 1382
Capozzi, Antonio, 1566
Card, Albert Martin, 1713
Carman, Russell Daniel, 1991
Carpenter, Henry F., 641
Carpenter, Mars W., 1565
Carroll, William, 1852
Carson, James Carlton, 216
Carson, John H., 501
Carter, George Hill, 1852
Carter, Harry Gilmore, 1712
Cartwright, James Wesley, 1149
Case, Clifford R., 1149
Case, Lafayette Wallace, 1712
Caspian, Paschal G., 293
Casselberry, Melville Logan, 365
Cassidy, Mont H., 1785
Cassilly, John L., 1089
Cathcart, Charles Philadelphus, 1852
Caton, Richard, 427
Caudoix, Albert, 47
Chandler, Lucy Ann, 890
Chapin, Staley N., 1306
Chapman, Andrew Louden, 433
Chapman, Henry W., 135
Chapman, Horace Ray, 707
Chasins, Charles Louis, 1565
Chastain, John Bunion, 707
Chatsis, 563
Cheatham, Walter B., 293
Chenoweth, Forrest A., 1468
Chidester, Cyrus W., 292
Childe, Charles Plumley, 701
Chlupsek, Elton Arthur, 1306
Chollet, Calvin A., 293
Cimiotti, Walter Frank, 1305
Cintron, Francisco Alvarez, Jr., 968
Cladek, Walter Edward, 707
Clancy, James Paul Irvine, 135
Clark, David, 640
Clark, Joseph Allen Mansfield, 1232
Clark, Joseph L., 501
Clark, Thomas F., 1928
Clarke, Robert C., 434
Class, Franklin Morris, 801
Cleaver, Israel, 1712
Cleborne, Ronayne Kirkbride, 216
Cleveland, John Desmoines, 1640
Clifton, Henry Ward, 434
Cline, John W., 1149
Clopton, William Garth, 1149
Closson, James Harwood, 1232
Cloud, Selustias E., 502
Cobb, George Henry, 1305
Cock, William Samuel, 54
Coffman, James W., 501
Coffman, L. D., 1928
Coghlan, Malachi, 1468
Cohen, Herman Nathaniel, 1640
Cohen, Morris S., 1382
Coles, Jonathan Ackerman, 134
Collins, Charles Read, 434
Collins, George Lewis, 1231
Collison, Henry M., 1382
Collity, James Michael, 1381
Combes, Frank C., 1785
Combest, George M., 1784
Compere, Dolphus Edward, 134
Connelly, Emory Hale, 1640
Connor, Hiram E., 1784
Conyngham, E. F., 969
Cook, Achilles Walter, 1928
Cook, Edward Reese, 1089
Cooper, Harrison D., 1928
Copeland, Charles Ward, 1382
Coppedge, James J., 1784
Coppin, R., 563
Cornell, Mary Clagett, 1852
Corwin, Arthur Sherwood, 1231
Costello, Henry F., 570
Cotty, William R., 968
Courson, Thomas N., 1149
Cowperthwaite, Allen Corson, 1785
Cox, Michael Francis, 1083
Coy, Isaac L., 1149
Coy, John W., 1566
Craddock, John William, 1713
Craig, Charles H., 968
Crapo, George W., 1641
Crawford, Alexander K., 502
Crawford, Edward Dismukes, 293
Crawford, Harry Benton, 1468
Crawford, Ralph B., 1928
Crawford, Thomas Henry, 54
Crickard, William F., 1468
Cromer, Peyton Ell, 134
Cronk, Edwin De Witt, 134
Croskey, Henry, 1089
Cross, Charles, 1927
Cross, Hennen R., 641
Crothers, Augustus C., 501
Crowe, James, 1928
Crowe, John H., 1640
Crowell, Gordon Bryan, 1784
Crowson, Samuel T., 569
Crumpler, E. L., 1088
Cryer, William Hilliard, 1852
Cullen, John M., 1992
Culp, Charles W., 1468
Cummings, Charles Joseph, 569
Currey, Herschel Eugene, 1232
Curtis, Wycliff Kerr, 1088
Cushenbery, John H., 365
Cushman, Earl Percy, 1089
Cushman, Willard S., 1640
Cushny, Arthur Robertson, 1083, 1144

D

Daly, Thomas Francis, 293
Damianovich, E., 427
Daniel, James R., 570
Darby, Joseph W., 501
Dardas, James Aloysius, 1640
Darling, Byron Curry, 1712
D'Armond, Christopher C., 1089
Darnall, Herbert Othello, 1305
Darwin, Thomas Martin, 1565
Davenport, Charles Pierce, 365
Davenport, E. P., 1928
Davey, Berten M., 1467
Davey, John Michael, 570
Davis, E. W., 1641
Davis, James, 1232
Davis, J. W., 1992
Davis, Robert G., 1641
Davis, Sherman Tecum, 135
Davis, Sumner Danforth, 1927
Davis, Wilbur Samuel, 434
Davis, William Divine, 1927
Day, Harris, 365
Deakins, Byron A., 292
Dean, Ralph Dennilston, 1852
Debendarfer, Uriah Herbert, 501
De Forest, Daniel A., 293
Degman, Edward Joseph, 501
De Haven, Frederick, 1992
Delaney, Joseph H., 1713
Delavan, Elizabeth Hinckley, 1713
Denike, George Henry, 1713
Denison, Charles Ellery, 968
De Smet, E., 287
Desnos, E., 47, 130
Devaul, Simon J., 641
Devine, William Henry, 801
Devron, Cyril Gustavus, 1852
Diemer, Frank W., 1852
Dimmer, F., 1300
Dinsmore, Walter Harris, 969
Doederlein, Theodore J., 1467
Donald, James Glenn, 1712
Donlan, Charles Edwin 1305
Dotson, Wynter Scott, 1148
Dougal, James Starrett, 1232
Dougall, Frederick L., 434
Dow, George H., 434
Downs, John, 365
Drake, Harry Houghton, 1382
Drake, John Hodges, Sr., 802
Draper, James Avery, 365
Draper, William Kinnicutt, 216
Dray, Arthur Righton, 1565
Driscoll, Daniel, 1382
Driscoll, James P., 1713
Dudley, David Edward, 1468
Dugan, John Parks, 570
Du Mars, Eliot Callender, 641
Dunlap, Charles Bates, 1991
Dunlap, Frank H., 1382
Dunlap, John, 217
Dunlap, William O., 1468
Dunlavy, Harry Coleman, 1565
Dunn, William James, 1382
Dupre, Barton Greene, 706
Durrett, Llewellyn Powell, 1306
Dutton, Charles, 968
Dwyer, Michael J., 54

E

Eakin, David F., 1992
Eastman, Frederick Converse, 1305
Eaton, Daniel Holton, 1468
Eberle, Edward J., 134
Eccles, Frank M., 434
Echols, J. R., 969
Eddy, Jennie L., Edington, 570
Edwards, Grandison C., 1784
Edwards, James C. A., 1641
Edwards, Thomas Clay, 501
Ehrlich, Henry, 707
Eldridge, Reuben F., 365
Elliott, Charles Edward, 1640
Elliott, Edward Ross, 365
Elliott, John William, 1927
Ely, Charles Franklin, 1382
Emens, William A., 1852
England, Cornelius M., 1232
Enright, Maurice, 1566
Evans, Everett Morton, 1566
Evans, Jonathan J., 1566
Evans, Lewis Hamilton, 1232
Evans, Robert Mercer, 434
Evelin, Arthur C., 707
Exner, Sigmund, 1142

F

Fairchild, Solomon Lincoln, 889
Falls, Benjamin Franklin, 802
Farago, Stephan, 431
Farra, George R., 365
Farrell, John Arthur, 968
Fassett, Julius, 1467
Fawdrey, William Cady, 1640
Fawsett, Harvey Ashbury, 707
Fearl, Fred Henry, 1566
Feigenbaum, Gerson, 54
Feingold, Marcus, 216
Felsenreich, A., 887, 1142
Felton, Howard E., 134
Ferree, Judson Albertus, 1305
Fetherston, Edward D., 1992
Fickling, Charles F., 1232
Field, Susan P. Hammond, 969
Figlia, A., 563
Fischer, Charles Sebastian, 968
Fischer, Charles Sumner, 1785
Fischer, Ferdinand, 1306
Fischer, Henry Archbold, 707
Fish, Elbert Le Verne, 135
Fish, Carlos A., 1784
Fisher, Benjamin Thomas, 1713
Fisher, Oliver, 54
Fisher, William Redwood, 1305
Fitzgerald, Jesse York, 1232
Flanagan, Walter Thorn, 217
Flinn, George Elmer, 293
Flinn, Lewis W., 1640
Floyd, Benjamin L. W., 569
Floyd, Frank Forrest, 1149
Flynn, James H. J., 1784
Flynn, Patrick Jerome, 1641
Fochtman, John Henry, 1232
Foikes, Hynan M., 1712
Fooks, Frederick E., 1566
Foote, Samuel Albert, 570
Forbes, Charles G., 1468
Ford, Ashton T., 1713
Ford, Lanta Weirick, 1640
Foreman, A. W., 293
Forrest, John W., 1566
Foster, George Vickery, 134
Foster, Seth Burnham, 707
Fowler, Richard Victor, 434
Fowler, Samuel Benjamin, 501
Fox, Charles Williard, 502
Fraenkel, E., 287
Francis, Lee Masten, 1467
Francisci, Miloslav, 1232
Frankel, E., 636
Frantz, Daniel Webster, 890
Freeman, John William, 569
Fretz, Alfred E., 1381
Fretz, John C., 54
Freund, Isadore D., 889
Frick, William, 889
Frie, Henry Carroll, 434
Friedel, Max J., 434
Fritsch, William A., 968
Froehling, Frederick Wilhelm, 1928
Fry, Charles, 54
Fuller, Charles Gordon, 365
Fuller, James L., 1784
Fulton, William Henry, 889
Funke, Alfred R., 217

G

Gabriel, Edward J., 1149
Gad, Johannes, 1142
Gallagher, George Watt, 217
Gallagher, John Joseph, 890
Gamble, William W., 641
Gangloff, Charles L., 1713
Gardner, Gabrielle Debains, 501
Garland, George Minot, 1088
Garst, Julius, 1149
Garvin, Samuel Henry, 365
Gay, Frederick Clifford, 707
Gay, Samuel Gilbert, 502
Gedge, Donald MacCulloch, 54
Gemmill, J. F., 1142
Gerhard, Alfred Yost, 54
Gerhart, Robert Pemberton, 968
Gerstell, Robert, 1089
Gibbs, Thomas L., 890
Gibson, Joel Albert, 434
Gibson, Sterling, 889
Gifford, Willis Baker, 801
Gilbert, George A., 1305
Gilbert, James Washington, 641
Gilcreest, Jacob Edward, 1148
Gill, Leonard Lee, 293
Gillen, Herbert Spencer, 1232
Gilman, William Henry, 890
Girard, Mary Augusta Brown, 1784
Gish, Abraham S., 1785
Glover, Jules, 1566
Godsman, Paul Bromley, 1991
Goetz, Peter Eugene M., 1382
Goff, Harry Neville, 1640
Goff, John W., 1566
Goldberger, Martin, 968
Golden, Michael Charles, 1566
Golgi, Camillo, 563, 1228
Golly, Harold Charles, 1852
Goodman, Herman, 1640
Gordon, Joseph Johnson, 134
Gore, James W., 217
Gourley, Oscar Emmett, 1641
Gradenigo, Giuseppe, 1500, 1710
Grady, Needham Harvey, 968
Gramm, Theodore J., 1305
Grandy, Charles Clancy, 706
Grant, James M., 1566
Grant, Joseph Roa, 1382
Grasett, John Charles C., 1089
Graves, Nathaniel Van Voorhis, 434
Graves, Zelfe Green, 135
Gray, Ephraim Ellsworth, 1992
Greene, August Edward, 1468
Greene, Joseph Edward, 434
Greer, Thomas S., 1992
Gregg, Allen C., 1306
Gregory, Joseph W., 1712
Griffin, Albert E., 1231
Grigg, E. D., 1231
Groesbeck, John W., 707
Groff, John H., 1232
Grossmann, Louis William, 1468
Grothan, Georgina A., 802
Groves, Oliver, 1991
Groves, William H., 1992
Gubbins, Charles H., 1468
Guion, Lemuel Edwin, 1232
Gunter, M. A., 570

H

Haase, Henry William Anthony, 889
Haberer, Joseph Valentine, 293
Haden, John W., 1992
Hadley, Fred Anthony, 1382
Haegler, A., 1300
Hagen, George T., 1565
Hale, David Jones, 1306
Hall, Edward Parks, 1927
Hall, Henry Martyn, Jr., 1231
Hall, Henry Morton, 1088
Hall, James, 1468
Hall, James H., 1713
Hall, John Basil, 563
Hall, Samuel S., 1713
Hamblin, Joseph Merrell, 1088
Hamilton, Albert N., 707
Hamilton, Hugh D., 1784
Hamilton, Isaiah E., 1852
Hammack, John Columbus, 1927
Hancock, Benjamin, 801
Hanna, David F., 1852
Hannahan, John Henry, 1232
Hansen, Maurice A., 1852
Harden, John H., 968
Hardman, Charles W., 641
Hardy, Irvin, 640
Hardy, James W., 1232
Harnsberger, Stephen, 293
Harris, Dwight J., 1468
Harris, Henry Fauntleroy, 1088
Harris, Hubert Wadlington, 1468

Harris, Jesse Ralph, 1148
Harris, John L., 1565
Harris, Joseph Friend, 589
Harris, Joseph Mayo, 1566
Harris, William E., 434
Harrison, Archibald Cunningham, 501
Harrison, David C., 216
Harrison, Francis H., 293
Harrison, John H., 434
Harrison, Thomas J., 707
Harrison, William Cole, 1468
Hart, Edward Roland, 502
Hart, R. Charles, 54
Hartnett, Joseph Daniel, 217
Hashinger, George Henry, 502
Hassell, Samuel E., 1785
Haswell, George Sherman, 1785
Hathaway, John R., 293
Haven, Walter S., 293
Hawke, Edward Skillman, 1712
Hawley, Donly Curtis, 640
Hay, Charles McKenzie, 1641
Hayes, William H., 1852
Hays, Annie, 968
Hazeltine, Laban, 1928
Hazen, John Wallace, 1712
Heard, Allen George, 570
Hearn, Richard, 1222
Héger, Paul, 499
Heilemann, Henry, 1852
Hellyer, Howard A., 1088
Henderson, William Lafayette, 1713
Henegar, William W., 292
Hennigh, George B., 1784
Henseval, M., 1706
Hepburn, Jared Charles, 1149
Herget, Louis J., 1927
Herriott, John E., 889
Herzfeld, K. A., 562
Heskett, J. W., 1641
Hess, Frederick Andrew, 969
Hetherington, William Leo, 501
Hewson, John Percival, 1088
Hibbe, Leopold H. R., 502
Hildreth, Henry, 707
Hill, Albert Arthur, 502
Hill, Arthur J., 1991
Hill, Charles Geraldus, 216
Hill, David Jasper, 1927
Hillis, Thomas J., 889
Hines, W. L., 135
Hinkle, William H., 1785
Hinman, Carlton V., 968
Hirschfeld, 1300
Hitchcock, Edward, 292
Hixon, Edward Felix, 1785
Hobart, James P., 502
Hobdy, William, 1641
Hoch, Henry Charles, 365
Hodges, Eren Duffin, 569
Hodges, William Henry, 707
Hoffman, Charles Summerfield, 889
Hoffman, Ripley C., 1784
Hogue, John A., Jr., 434
Holdren, George W., 54
Holland, Daniel Alcott, 1149
Holland, William Henry 1149
Holliday, Hamilton, 365
Holloway, Abraham L., 1713
Holmes, John William, 54
Holt, George W., 1468
Holt, John Warren, 1088
Hope, George Bevan, 1467
Hopkins, Henry Reed, 1305
Hopkins, Seymour M., 889
Hornbarger, William J., 968
Hornbogen, Harry J., 1088
Horton, Calvin Dix, 641
Hoskins, James T., 1713
Hotchkiss, Lucius Wales, 1467
Hottenstein, Elmer Knebb, 293
Hough, Charles Pinckney, 1149
House, Wooster Haswell, 365
Howard, Adams Bailey, 1305
Howard, George W., 802
Howell, Charles F., 969
Howk, Horace John, 1305
Howland, John, 1991
Howle, Thomas E., 569
Hubbard, Halbert Charles, 434
Hubbard, Willis O., 1468
Hudson, David O., 1382
Hudson, Keith E., 890
Huebert, Agnes Hancock Hertzler, 641
Huebner, Dewees A. W., 1088
Hughes, Willet Patterson, 1852
Hull, Alva Rufus, 1088
Humphreys, Frank Robert, 1232
Hunt, Edwin M., 1232
Hunt, John T., 502
Hunt, Thomas Howard, 569
Hunter, John Francis, 365
Huntley, Mary M., 1566
Hurst, J. C., 1566
Hyett, James E., 969
Hyndman, Hugh Kennedy, 1785

I

Imhoff, Levi M., 570
Ingram, Lawrence, 968
Ins, A. von, 701
Isenberg, Joseph L., 1928
Isham, George Snow, 1232
Israel, James, 636, 1087
Isseistein, Gerhard Arthur, 1927

J

Jackson, Homer T., 969
Jackson, Reuben B., 365
Jankowski, J., 287
Jarnagin, William Calvin, 1232
Jarvis, William Furness, 216
Jauss, Christian E., 365
Jenkins, Charles E., 1712
Jerard, Harold, 1149
Jewell, Henry Hiram, 641
Jewett, Charles Sherman, 1089
Jillson, Franklin Campbell, 1784
Johnson, Donald, 1852
Johnson, Erwin T., 501
Johnson, Eugene Yates, 801
Johnson, Franklin T., 707
Johnson, Thomas B., 216
Johnson, Thomas H., 434
Jones, Frederick, Jr., 501
Jones, Horace Loomis, 434
Jones, James Dennistoun, 1565
Jones, John Bayley, 501
Jones, Le Baron Wilmot, 1565
Jones, Lowell M., 135
Jones, Turner William, 1712
Jones, Thomas Slater, 889
Jones, William Frederick, 889
Jonnesco, T., 1463
Jordan, Charles Melville, 501
Jordan, John S., 1640
Joyce, Thomas Urquhart, 1382
Jump, Clarence Kent, 293
Juramie, A., 636

K

Kahn, Max, 1305
Kalaicinski, Felix, 1641
Kanar, William, 1992
Kandt, Hartwig, 1148
Kantor, H., 1082
Karzke, William C., 502
Katzenbach, William Henry, 1149
Kay, Alexander Douglas Wallace, 1712
Kay, Thomas Walter, 217
Keaney, James Cullen, 1928
van Keerberghen, M. A., 1300
Kelper, George Frederick, 968
Kelchner, William Irving, 292
Kelleher, William Lawrence, 501
Keller, David Henry, 1468
Keller, R. E., 1641
Kellogg, Charles F., 890
Kellogg, Jirah H., 1712
Kelsay, Shelby Harrison, 1149
Kene, Joseph Alphonse, 1088
Kennedy, Clyde P., 1382
Kerr, Norman A., Jr., 434
Kiester, William H., 1232
Kilmartin, Thomas Joseph, 1148
Kimball, Channing B., 135
Kimball, Charles Otis, 502
Kimball, Frank H., 1784
Kinder, William John, 969
King, Alexander T., 1640
King, Henry Bell, 1149
King, Judson Benson, 801
King, Joseph Melville, 502
Kingsbury, George C., 1928
Kinne, Hudson Jerome, 1149
Kirchner, Martin, 47, 134
Kiteley, Pennington, 969
Klein, Herman Armin, 292
Kline, William, 1149
Klippert, Charles Frederick, 1382
Kolseth, Harry Lincoln, 434
Kopf, Albert Joseph, 1149
Kouindjy, 1142
Krebs, Amos Bryan, 1089
Kriege, Henry W., 1089
Krygowski, Anthony, 641
von Kuznik, P., 287
Kyrle, J., 1300

L

Labat, E., 1142
Lackner, Henry George, 217
Lain, George D., 1641
Lalonde, Ulric J., 1928
de Landeta, J. B., 563
Landolt, E., 1847
Landon, Lewis Cass, 1566
Lane, Robert Low, 434
Langlois, Theophilus J., 1089
Langworthy, Joseph Howard, 1640
Lathrop, James H., 1382
Latimer, Wendell Lee, 968
Laurenzana, Donato Antonio, 502
Lautenbach, Louis J., 1852
Lavin, John M., 54
Law, James, 365
Law, W. K., 1463
Laws, Casilus Dulany, 293
Lee, Charles B., 54
Lee, Henry B., 1852
Lee, John Mallory, 433
Lee, Robert Allan, 365
Leeman, Jerry A., 1382
Le Goff, 1847
Lehman, Franklin Freese, 1640
Lehmann, George H., 890
Leighton, Ira Albert, 706
Leipold, William C. A., 1306
Leishman, William Bogg, 1847
Lenhart, Peter J., 1149
Lennox, Benjamin Robley, 1149
Lentz, F., 1706
Leo, Stephen F., 890
Leonard, Henry C., 135
Leonard, Zenas Lockwood, 1381
Levi, Michael H., 890
Levy, 1300
Lewis, Arthur Parker, 1852
Lewis, Charles Howard, 365
Lewis, Frank L., 1468
Lewis, Thomas Henry, 365
Lewis, William H., 1566
Lhotak, Kamil J., 701, 703
Lichtenwalner, Abbott B., 1149
Lincoln, Joseph C., 1231
Lindley, Thomas Henry, 1149
Lindsay, Clarence Alphonso, 54
Lindsay, Neville James, 1089
Linehan, Harlan Edward, 1382
Linney, Romulus Z., 570
Lipscomb, Albin Wilkhire, 1785
Lisman, Samuel J., 1566
Little, John Mason, Jr., 1381
Lluria, Enrique, 212
Lockhart, Albert O., 707
Lockhart, Charles J., 1468
Loeding, Charles Franklin, 1231
Logan, Bruce Lee, 1149
Loney, James S., 890
Long, James Benjamin, 434
Long, Lemuel I., 365
Long, William Samuel, 501
Looney, William C., 1784
Loranger, Phillip J., 54
Loughridge, James, 569
Love, Ephraim Waldo, 1382
Love, Maro Johnson, 1784
Love, Richard Holden, 1306
Love, William Mitchell, 1382
Loveioy, Walter, 365
Lovell, Aden G., 1149
Lovvorn, James L., 890
Low, Samuel P., 434
Luc, H., 287
Luckett, Stephen E., 217
Lum, Harry Keep, 1149
Lussier, Charles Arthur, 889
Lyle, Thomas J., 434
Lyman, John Van Reed, 1306
Lyons, Albert Brown, 1381
Lyons, Frank Pierre, 1713
Lytle, John S., 1382

M

MacAlister, John, 128
MacBride, Daniel L., 1382
Macdonald, Harry George, 1784
MacDonald, Joseph, 54
Mackenrodt, A., 563
MacNaughton, Peter, 1784
MacNeill, Alexander, 1468
Macon, Philemon Jenkins, 365
Madsen, August Henry, 1306
Mahoney, John Joseph, 1640
Mahr, George J., 1852
Mainini, P. M., 1463
Maisel, 1300
Mandl, Nicol Martin, 434
Maniss, William J., 434
Mantuefel, Zoon von, 1300
Marcondes, Castilho, 1142
Marcy, Virgil Maro Dow, Jr., 1088
Marino, Francesco, 434
Marnitz, Louis Joachim, 365
Martin, Charles Allen, 1232
Martin, Edwin W., 569
Martin, George Burley, 1381
Martin, Joseph, 1712
Martin, Marion Thompson, 293
Martin, Samuel H., 1232
Martindale, Horace Clay, 1712
Martindale, Joseph Watson, 889
Masterson, John Thomas, 1468
Mathews, Wallace, 1149
Mathis, William Kurtz, 1382
Matney, William D., 1566
Matthew, Everett S., 293
Matthews, Nicholas Green, 1382
Maumonny, G., 427
Mayginnes, Niceus Walker, 1852
Maygrier, 563, 1562
McAlister, Nathan Edward, 1928
McAlpine, John, 217
McCabe, Lawrence C., 365
McClelland, Charles Edward, 1305
McClelland, Lefferts A., 1467
McClure, Howard Smith, 434
McClurg, Cyrus Blazer, 707
McCollum, Charles A., 1088
McComb, James, 1089
McCorkle, George Earl, 1232
McCoy, James W., 802
McCres, John A., 1382
McCully, Jonathan, 1088
McDavitt, Thomas S., 801
MacDonald, Carlos F., 1991
McDowell, George Washington, 1088
McEwan, Samuel Wilson, 135
McFadden, George Howard, 216
McGann, John Henry, 889
McGarvey, Fred B., 1640
McGeehan, Edward J., 569
McGlamery, James David, 1382
McGlasson, Thomas F., 1712
McGowen, Thomas J., 1640
McGregor, George Wilbur, 365
McGuire, Constantine Francis, 1381
McGuire, Marion Herbert, 1712
McHenry, William A., 501
McKamy, Thomas J., 292
McKee, Miles Cabel, 1566
McKendrick, John Gray, 427, 565
McKenzie, Hector Daniel, 1382
McLarty, Wallace Howd, 54
McLean, John Baxter, 1468
McManus, James, 1640
McMartin, John Bryce, 1306
McMurtry, Thomas J., 1468
McNeece, Joseph, 1306
McNeill, Charles Albert, 969
McNulty, Caleb J., 1784
McSweeney, Edmund George, 54
McWaters, William J., 1928
McWilliam, John, 1232
Meacham, Thomas Vincent, 968
Mead, Charles H., 1232
Meccbella, Giovanni, 641
Meengs, Dirk R., 54
Meeser, George Ford, 54
Mégevand, Louis, 427
Melitschaki, 1300
Melnas, Wilbur C., 1566
Melugin, Francis Edwin, 217
Menah, William M., 216
Merrill, Cyrus Strong, 1148
Merrill, Lawrence, 802
Merritt, Elsie Belle, 969
Merryman, John Whitfield, 217
Meshew, Joshua W., 365
Method, Carll Casper, 1305
Michaelis, Alfred H., 1640
Middleton, Willis Pearl, 1928
Mikkelsen, George Stephen, 1089
Milam, James H., 969
Miller, Carroll E., 707
Miller, Edwin Barclay, 641
Miller, George, 1640
Miller, George Philip, 217
Miller, George W., 501
Miller, J. W., 1928
Miller, John W., 1306
Miller, John William, 1928
Milligan, George W., 502
Milliken, William Harding, 889
Mills, George Willis, 293
Mills, Seth, 707
Milner, Virginia Helm Richardson, 501
Minnes, Robert Stanley, 1089
Minor, James Alvin, 1641
Mitchell, Edmund Henry, 1382
Mitchell, Laurent S., 1785
Mitchell, Prescott Tallman, 1381
Mitchell, Robert Sanford, 1992
Mixter, Samuel Jason, 501
Mizner, William Garrison, 969
Moffat, Henry, 1149
Moffett, Charles Campbell, 1785
Mohney, Irvin R., 1382
Moist, Abram R., 890
Molina, S., 1377
Mollison, Robert Crichton, 968
Moncure, Powhatan, 1928
Monroe, William Archibald, 968
Moodie, Willis Beecher, 1149
Moody, Charles, 1467
Moore, Charles Henry, 1640
Moore, John Hamilton, 293
Moore, John Joseph, 365
Moore, John William, 1232
Moore, Pattie Alonzo, 1306
Moore, Samuel Edward, 54
Moore, William Henry Hudson, 707
Morelle, A., 563, 1562
Morgan, Field Chilson, 889
Morgan, John J., 889
Morgan, Thomas Henry, 1566
Morris, John Baker, 1784
Morriz, 1300
Morrish, Ross William, 501
Morse, Charles Ellsworth, 889
Moss, James A., 501
Mottet, Murray Gale, 292
Mount, Morgan Frederick, 1852
Moussoux, A., 636, 1227
Moyer, Frank K., 434
Mudd, John James, 1565
Mueller, Arnold Frederick, 292
Mugrage, Samuel Gibson, 1712
Mulford, Edgar Barnes, 889
Munroe, Roy McLeod, 889
Murphy, Felix Aloysius, 889
Murphy, Harry Lavelle, 1088
Murphy, Lorenzo P., 502
Myers, Thaddeus Halsted, 216

N

Naylor, Henry Louis Perrie, 889
Neer, Rush, 1382
Neiswender, Lisle W., 1713
Nelken, Abraham, 889
Nelson, Nels Christian, 54
Nelson, William Wilson, 968
Newberne, Robert Edward Lee, 968
Newton, William L., 1088
Nichols, Alvord Gates, 1852
Nichols, Herbert Nathan Thos., 1852
Nitterauer, John S., 570
Norgren, Arvid, 563
Norris, William V., 1382
Norton, Albert E., 1382
Norton, Edwin Hathaway, 217
Noxon, Allan, 1232

O

Oberst, M., 47
O'Brien, John J., 969
O'Brien, Stephen Leo, 968
O'Bryant, Lemuel Franklin, 1468
Ogden, Zacharach Bailey, 1232
O'Gorman, George, 502
Olin, Francis Henry, 570
Oliver, Herman B., 501
Orr, Charles Lawrence, 1640
Orton, Ellsworth, 1852
Osburn, William G., 641
Owen, Joseph Allen, 502
Owens, Joe M., 1382
Oyler, Harry Schuyler, 1149

P

Padgett, James Benjamin, 1381
Page, Charles Alexander, 1852
Paget, Stephen, 1921, 1923
Painter, George Gratton, 569
Painter, William Graham, 1712
Palmer, Albert Reed, 293
Palmer, Ebenezer Lee, 1232
Paradis, Charles Rudolph, 1232
Parker, Frank Howard, 434
Parker, James W., 1641
Paschal, Frank, 217
Passow, A., 563
Patellani-Rosa, S., 563, 1142
Patrick, Jesse Kersey, 1305
Patterson, John Addison, 54
Patterson, William Turner, 54
Patton, Edward A., 502
Patton, Silas W., 1390
Paul, Frank David, 1713
Paxton, Robert Simpson, 1566
Payne, Josiah H., 502
Peabody, Frederick B., 1305
Peachi, 54
Peak, Preston A., 1232
Pease, William A., 802
Peck, Albert Benton, 1382
Peck, George Augustus, 1640
Peele, Grace Darling, 707
Peerson, James M., 54
Pellissier, M., 1847
Pellizzari, Celso, 563, 705
Pelton, Daniel A., 1382
Pendleton, Thomas Owen, 569
Peninger, Henry Clinton, 1565
Pennington, Edward R., 135
Pennington, James Elbert, 641
Perkins, Stella Manning, 293
Permewan, W., 1300
Perot, Clarence Gabriel, 802
Perry, Crosby A., 502
Perry, Henry Joseph, 640
Peters, Byron M., 501
Peters, William Robert, 1641
Petitus, Joseph Albert, 1381
Peyton, Frank P., 1927
Pfender, Charles Alexander, 706
Pfenning, August Charles, 434
Phillips, David P., 293
Phillips, Fleming L., 1641
Phillips, Matthew Dalton, 217
Phillips, Thomas J., 890
Phillips, Willis O., 802
Pick, Friedl, 1711
Pickard, John Everitt, 706
Pidi, O., 701, 703
Pike, Charles Paul, 1927
Pilcher, Frank E., 217
Pinkerton, James Alfred, 1468
Pipher, John, 889
Piza e Almeida, G., 47
Place, Olney Galen, 1382
Podesta, Bartholome, 1706
Poehner, Adolph Adam, 889
Pollitzer, S., 210
Polon, Albert, 4148
Polyak, 563
Pomroy, Thomas W., 1641
Ponder, Abraham V., 501
Pooley, Thomas Rickett, 801
Pope, Dargan Strother, 1713
Pope, James G., 1232
Pope, Peyton Smith, 1641
Porter, Fletcher K., 968
Porter, Isaac Napoleon, 1852
Porter, William Alfred, 293
Pothier, Oliver, 433
Potter, Isaac Lewis, 1468
Powell, Charles N., 1565
Powers, John Benjamin, 433
Prall, Ezra, 293
Prentiss, James H. F., 1641
Presley, Isaac Newton, 1928
Prettyman, Charles W., 135
Prewitt, Albert Blackburn, 1852
Prichard, James Marvin, 502
Priestley, James Taggart, 216
Printz, Morris, 1927
Proctor, Edwin G., 1382
Proctor, John Donald, 1566
Province, William M., 434
Puelles, 47
Pulsifer, Ralph Howard, 1713
Pulvermacher, Theodore Louis, 1231
Puppe, G., 47
Purdon, John Edward B., 502
Purdy, William H., 54
Purdy, Willis Ezra, 890
Pursifull, Paschal Y., 433

Q

Quincy, William C., 1468

R

Radcliffe, Samuel W., 135
Rafferty, Theodore N., 707
Raines, James Tidwell, 1382
Ramey, Rodney D., 1381
Randall, Clifford Walcott, 433
Rasmussen, Carl Wander Halvor, 293
Rawlings, James Bassett, 365
Ray, Charles Reginald, 802
Rayner, Henry, 1142
Raynor, Melbourne, 293
Read, Alfred H., 801
Reeves, Thomas Edwin, 707
Reifferscheidt, K., 1142, 1706
Reiser, George F., 890
Remmen, Nils E., 801
Renn, Pius, 293
Reynolds, Ernest Septimus, 1921
Reynolds, Petit T., 501
Reynolds, William Tunis, 501
Rhoads, Edward Garrett, 501
Rice, Raymond Albert, 1148
Rice, Ulysses Augustus, 1640
Rich, Thomas J., 1232
Richards, James Cooper, 1089
Richardson, Thomas Leonard, 292
Riche, Paul, 1232
Richter, August Paul, 890
Richter, George E., 1468
Ricker, Joseph Trimble, 1785
Ricketts, Benjamin Merrill, 569
Riddell, John De Witt, 434
Riddle, Hamilton Rush, 1640
Riggs, Elliott Swift, 1927
Riley, Lewis K., 969
Riordan, Michael F., 135
Rivkees, Aaron, 1089
Roach, Thomas Edward, 217
Roan, Charles Frederick, 889
Robbins, Chandler, 1468
Roberts, Charles Percy, 890
Roberts, Isaac Lincoln, 707
Robertson, Jessie E., 293
Robertson, John Frank, 135
Robtson, George Edgar, 968
Rockwell, Harry D., 707
Rodden, Hugh Aloysius, 434
Rodgerson, James A. C., 134
Rogers, Henry Warren, 706
Rogers, Elram Sturgeon, 707
Rogers, Mack, 1148
Rogers, Thomas W., 1784
Rohr, John H., 1232
Roles, James, 135
Romig, George M., 54
Roof, Stephen White, 1149
Roos, E., 1142
Roper, James F., 802
Rorbach, Frederick, 1992
Rose, Edward L., 365
Rose, John Montague, 1468
Rosenberg, C., 563
Rosenstirn, Julius, 1305
Rosewater, Nathan, 707
Ross, George, 1305
Ross, George Alfred, 1306
Ross, John H., 293
Ross, L. H., 969
Ross, Thomas A., 1382
Ross, William Oliver Henderson, 135
Rossiter, Harmon Jasper, 1928
Roth, Joseph Christian, 135
Rowe, George Allan, 1382
Ruble, Wilbur Gleason, 1712
Rucker, James J., 501
Rudisch, Julius, 1784
Ruge, Carl, 1706
Rush, John Calvin, 1089
Rushmore, Mary D., 1305
Russell, Charles H., 968
Russ, Canute Walter, 570

S

Sabin, William B., 802
Saenger, Nathaniel, 1640
Sally, Boyce O., 969
Saltry, James F., 502
Samaine, Louis Bernard, 434
Sandborn, Manly J., 640
Sanderson, Henry Ellis, 706
Sands, J. Seldon, 641
Sappington, Clifford T. W., 54
Sayle, Benjamin B., 134
Schafer, Augustus Francis, 1640
Schenk, Adolph E., 434
Schell, James Thompson, 801
Scheller, Christian R., 1088
Schenck, Ellen Eastman, 1640
Schilling, Ernest Raymond, 1565
Schilling, John, 1306
Schlag, Rex Alexander, 1149
Schmidt, Frederick, 1468
Schmidt, Frederick Ernest, 1089
Schnopfhagen, F., 47
Schoen, August Ferdinand, 1640
Schroeder, William Edward, 801
Schulz, Ferdinand Martin, 569
Schuman, Alexander C., 1928
Schuster, H., 636
Schütz, 563
Scott, Early E., 1712
Scott, Frank, 1785
Searles, Austin D., 969
Seawell, Virgil Newton, 1382
Seiss, Ralph William, 569
Seyler, James H., 1565
Sforza, C., 1846
Shadden, Alexander R., 1640
Shaffer, John W., 570
Shanks, William Frederick, 1847
Shannon, Nathaniel Vaughn, 707
Sharp, William Edward, 1784
Shaw, Frederick Ira, 1381
Sheedy, Bryan DeForest, 1089
Shelbley, John A., 1149
Shepherd, Banks Albert, 1992
Shepherd, Lemuel Cornick, 1468
Sherman, Fred, 802
Shibley, John, 1641
Shinault, Charles R., 433
Shipley, Robert S., 707
Shirey, William K., 135
Shirkey, Wilbur Fisk, 1712
Short, Hiram S., 802
Showalter, Percy Coburn, 1992
Siegrist, Charles H., 1785
Siewers, Sarah M., 1641
Sigler, Hollis F., 1852
Silver, Arthur, 434
Simpson, Charles Edward, 217
Simpson, James William, 434
Simpson, Robert S., 293
Simpson, Sutherland, 889
Siron, William K., 1149
Slattery, John J., 434
Sloan, James M., 890
Slover, J. T., 1992
Slown, John Nelson, 1992
Smet, E. de, 47
Smith, Byron A., 1089
Smith, Charles Edgar, 707
Smith, Douglas Henry, 969
Smith, Earl Frederick, 293
Smith, Edward O., 1785
Smith, Edward T., 802
Smith, Howard Morgan, 135
Smith, John Bowen, 802
Smith, John Henry, 889
Smith, John William, 1706
Smith, Peter Franklin, 216
Smith, Samuel Harper, 1713
Smith, Samuel K., 365
Smith, Walter K., 1382
Smith, Webster, 802
Smith, William Morgan, 216
Smith, William R., 365
Smuck, James Wallace, 1566
Smythe, Frank David, 292
Snavely, Harry Barr, 641
Snyder, Edward D., 707
Soegaard, Erick, 969
Somers, George Burbank, 640
Southall, Philip Turner, 1148
Sparks, Milton W., 1785
Spearman, John Francis, 1468
Spencer, Claude Lafayette, 293
Spencer, Owen Wicks, 1088
Sperry, Edward Lafayette, 1852
Spinks, James M., 434
Sproul, Robert M., 1852
Stadter, John Phillip, 1231
Staggs, William Edward, 54
Stambach, Ida V., 707
Stark, Alexander N., 1712
Starr, Graham Franklin, 890
Steans, Ralph, 1232
Stedman, Henry Rust, 801
Steele, Harry Merriman, 1088
Steiner, Ralph, 1784
Stephenson, Eston B., 641
Stetson, John Smedley, 569
Stevenson, William Andrew, 968
Stewart, Archibald Blyth, 1306
Stewart, Duncan Fraser, 501
Stickney, George Augustus, 1232
Stiles, Channing H., 802
Still, William Henry, 802
Stillson, Joseph O., 640
Stine, Frederick A., 707
Stoerk, I., 887
Stoerk, O., 701
Stolze, Joseph Ariel, 641
Stonebraker, Samuel Lee, 1149
Stork, John Henry, 1232
Story, John B., 1083
Stowers, Sterling P., 1640
Straughan, Kent Kane, 707
Straw, Amos Gale, 1305
Street, Samuel A., 217
Strong, Judson Eugene, 802
Struch, Carl, 1713
Stults, Millard F., 1565
Stump, William, 1089
Sullivan, Daniel Bartholomew, 969
Sullivan, Emmet William, 969
Sullivan, John Henry, 1992
Sullivan, Thomas John, Jr., 1088
Sullivan, William Charles, 1142
Summa, Frank Paul, 1852
Sumner, William L., 1712
Supple, Arthur Blaise, 569
Sutherland, William Pinkney, 434
Swangem, William L., 1785
Swann, M. B. R., 964
Swartzwelder, James Sherman, 802
Swift, George Montague, 216
Swinney, George W., 707
Swope, Dalva Hamit, 502

T

Tait, John, 1232
Taulbee, John Andrew, 1785
Taylor, Asher C., 1468
Taylor, Horace Maynard, 1852
Taylor, James, 570
Taylor, James Morgan, 641
Taylor, James W., 135
Taylor, William F., 1306
Taylor, William Franklin, 1713
Templeton, Abdul M., 1382
Ten Brook, Andrew, 1306
Thatcher, Haines C., 433
Thieme, Gustave August, 434
Third, James, 706
Thomas, John Benjamin, 1992
Thomas, Whitlip Marsden, 293
Thome, Winfield M., 293
Thompson, Fred, 707
Thompson, Nelson Water, 1148
Thomson, Thomas Weston, 293
Thornburgh, Ellis H., 1991
Thornton, Ulysses N., 135
Thrasher, Marion, 1566
Thurber, Samuel Wood, 1149
Tilton, Edward Herbert, 1232
Tims, William E. P., 707
Tinkham, Henry Crain, 54
Tipton, Karl E., 707
Tobold, R., 1110
Tolliver, Milton P., 1306
Tomkins, Joseph George, 54
Toole, Edward W., 1566
Torbit, M., 217
Török, Bela, 47
Towles, Alfred N., 890
Tracy, Roger Sherman, 1306
Travis, Kelley W., 1149
Trevitt, Margaret, 434
Trewyn, William Thomas, 889
Trumbo, Charles Travis, 968
Tuczek, F., 887
Tupper, William G. W., 1928
Turner, Thomas G., 802
Turney, Alton J., 1565
Tuthill, Harry S., 1712
Tuttle, Albert Henry, 969

U

Upshaw, Ira W., 293

V

Valentine, William D., 1641
Vandiver, C. E., 1232
Van Doozer, Benjamin Rel, 641
Van Fossen, Jesse Allen, 707
Van Matre, Major, 433
Van Zandt, Burnis, 1232
Vaughan, Elmer E., 1565
Vetlesen, H. J., 636
Vines, Richard L., 1852
Virtue, Frank M., 1784
Vloet, Van den, 1142
Vorhes, John Howard, 1784
Vose, Albert C., 1232

W

Wagner, Henry G., 502
Wagnon, Beriram Harvey, 54
Wakefield, Albert Tolman, 569
Wakeham, Frederick L., 1088
Waldron, M. H., 434
Walker, Amos Clark, 640
Walker, Charles Henry, 1149
Walker, James, 641
Walker, Thomas, 1089
Walker, William J., 1382
Wallace, Edward R., 802
Wallace, Franklin Emmett, 1927
Wallace, J. Brown, 1088
Walling, Charles Wilbur, 501
Wallingford, Alexander M., 1852
Wallingford, John T., 1149
Waltwin, Henry, 1565
Walters, James Harry, 889
Walthall, John Daniel, 1382
Ward, Daniel W., 365
Warren, Henry M., 889

Waterman, Lucius G., 1149
Watson, Harry Jackson, 434
Watson, James Crawford, 1640
Watson, William Topping, 706
Weaver, Fred Bain, 1305
Weaver, William Henry, 707
Weber, Louis, 707
Webster, Charles Lewis, 570
Weer, Harry Hillard, 707
Weiss, Edward Aloysius, 1231
Weiss, Julius, 1468
Welbourn, Edward L., 1784
Wells, Edward Franklin, 292
Wells, John Stillwell, 889
Welsch, Thomas Henry, 569, 1088
Wentz, Alexander C., 889
Westmoreland, Fred Stroble, 1305
Wetmore, Nelson Frank, 1232
Wheeler, William G., 434
Wheelock, William Efner, 707
White, Albert A., 293
White, John B., 502
White, John C., 1232
White, Sydney G., 1641
White, William E., 1852
Whitehead, James, 1468
Whitehead, John W., 969
Whitehead, Willett William, 135
Whitford, William Edward, 1640
Whitlatch, Charles Henry, 216
Whitlow, Elonzo A., 1467
Whitney, Marcellus, 54
Wiehe, Ferdinand Williiam, 134
Wigle, Hiram, 1089
Wilcox, Hamilton H., 54
Wiley, Rebecca Weeks, 135
Wilhite, J. C., 1566
Wilkins, John M., 1306
Wilkinson, Carlus E., 54
Wilkinson, John A., 1468
Willets, J. Howard, 501
Williams, Alfred Carson, 1149
Williams, Charles Morgan, 968
Williams, Harold, 1305
Williams, Morgan J., 1381
Williams, Newton M., 1149
Williamson, Alvin A., 1566
Williamson, Harry, 1713
Willson, Purvis S., 1852
Wilson, Charles Edgar, 570
Wilson, Charles Moore, 217
Wingender, Wendell Phillips, 501
Winterer, Charles Henry, 135
Wintrich, Carl, 1928
Wolfer, Carl F., 1468
Woltz, John R., 1566
Wood, Buford Thomas, 1928
Wood, John T., 293
Wood, Nimrod Polk, 968
Wood, Theodore Clement, 1565
Woods, Reuben, 135
Woodside, Harry A., 434
Woodward, Francis R., 1382
Woolley, Charlotte H., 969
Woolsey, Thomas R., 135
Worth, Charles Wesley, 570
Wright, Isaac Winfield, 292
Wright, John Winthrop, 1305
Wunderlich, Edmund J., 134
Wunderlich, William, 890
Wyder, T., 1706
Wythe, Percy Thomas Henry, 1852

Y

Yates, George A., 1089
York, Nelson Durant, 890
Young, Albion G., 501
Young, Edgar William, 570
Younger, Josephus, 135
Yourtee, John Tilghman, 570

Z

Zaiser, Albert Charles, 1712
Zern, Jacob Gilbert, 1305
Ziegler, Edward Jerome, 1784
Ziegler, Samuel Lewis, 134
Zinn, William J., 1641
Znojemsky, J., 287, 431

E

EAR: See also Mastoid; Otolaryngology
cerumen, function, [Creed & Negus] 1946—ab
drum-head, lipoid arc, [Berberich] 316—ab
herpes zoster oticus, [Guthrie] 1663—ab
Inflammation of Middle Ear: See Otitis Media
internal, and cerebellum, [Wodak & Fischer] 315—ab
labyrinth; decerebration studies, [Davis & Pollock] 902—ab
labyrinth disease, convergent spasm in, [Borries] 1956—ab
labyrinth functioning, [Mygind] 1956—ab
medication, [Fantus] *417
of deaf mutes, anatomic changes in, [Gray & Nelson] 984—ab
ECHINOCOCCOSIS: See also Lungs; Spine; Tibia; etc.
daughter cyst formation, [Dew] 153—ab
in cat, [Henry & others] 912—ab
in New South Wales, [Ross] 1167—ab
serologic test, Ghedini-Weinberg's, [Horowitz-Wlassowa] 917—ab
ECLAMPSIA, blood calcium in, [Feinberg & Lash] 1164—ab
control, [Dorsett] 1393—ab
liver function tests in, [Stephenson] 1864—ab
nonprotein nitrogen retention in, [Mussey] 650—ab
postpartum, [Cohen & Cohen] *947
sequels in mothers and children, [Bund] 385—ab
thyroid in, [Moreira] 913—ab
treatment, insulin, [Stander & Duncan] 650—ab; 557—E; [Titus] 969—C
treatment, paraldehyde intravenously, [Caldwell] 721—ab
ECZEMA from focal infections, [Visher] 67—ab
from shaving creams, 1234
glucose intolerance in, [Ayres] 306—ab
of fingers, 59
of vulva, cesarean section in, [Liepmann] 1257—ab
roentgenotherapy, [Lomholtz] 386—ab
treatment, 1307
vegetative nervous system and, [Castex & Camauer] 76—ab
EDEMA: See also Ascites; and under names of organs and regions as Brain; Heart; Lungs
angioneurotic, psychology, [Schultz] 1876—ab
angioneurotic, [Wason] *1332
critical considerations, 952—E
death following rapid absorption of fluid of, 1783
from shaving creams, 1568
in children, [Pilcher] 978—ab
in Nephritis: See Nephritis
in Pregnancy: See Pregnancy
latent, [Guggenheimer & Hirsch] 1953—ab
malignant, oxygen treatment, [Roantree] *1345; [Janssen] 1855—C
nerve mechanism and, [Hanzlik] 805—ab
serum surface tension in, [Beckmann] 1173—ab
water; enough, more, or less, 1912—E
water production and, [Mello] 1406—ab
EDUCATION, MEDICAL: See also Fellowship; Interns; Internship; Scholarship; Schools, Medical; Students, Medical
adaptation to changing clinical practice, [Wilson] 1218—ab
annual congress on, 203; 281—E; 629; 694; 756; 875; 956; 1077; 1135; 1218
commission on, Association of American Medical Colleges, [Rappleye] 1078—ab
cooperation in, [Mann] 629—ab
curriculum, revision, [Herrick] *3
curriculum, saving time, [Wilbur] *1498
curriculum vs. state board, [Shanklin] 694—ab; [Jeanup] 694—ab
expensiveness, effect, [Pusey] *1506
experiment in, at University of California, [Kerr] 1864—ab
extension work, [Sundwall] 757—ab
extreme requirements in, 120—E
graduate, [Ford] 756—ab
graduate assemblies, 127; 209, [Peck] 756—ab
EDUCATION, MEDICAL—Continued
graduate courses in health examination, [Wightman] 65—ab
graduate work, extramural, 1082
in Europe as seen by an American, [van Rijnberk] 80—ab
in periodic health examinations, [Emerson] 143—ab
medical service and, [Pusey] *1501
of future physician, [Phillips] *1262
premedic, saving time in, [Judd] 756—ab
problems, [Mackenzie] 631—ab
program and its reactions, [Dinwiddie] 630—ab
progress, [Rodman] 956—ab
teaching, conference on, Buenos Aires, 566
university medical school organization, [Bevan] *591
university surgical clinic, [Lewis] *1493
Yale announcement and, [Stockard] *1508
EFFERVESCENCE, [Fantus] *689
EFFUSIONS: See Exudates
EGGS, effect of ultraviolet rays on, 870—E; [Hughes & others] 1246—ab
food poisoning from duck egg, 1084
immunizing against, 1308
preservation vs. vitamin content, [Tso] 1398—ab
EISELSBERG, A., celebration in honor of, 1850
EKSET for diabetes, 1641—P
ELBOW, fractures, [Ritter & others] *680
ELECTRICITY, accidents, 214
shock, resuscitation, 58
ELECTROCARDIOGRAM; ELECTROCARDIOGRAPHY: See Heart
ELECTROCOAGULATION: See Diathermy
ELECTRODIAGNOSIS in paralysis following poliomyelitis, [Kovacs] *741
ELECTROLYSIS for superfluous hair, 709; [Kovacs] 969—C
ELECTROLYTES and action of insulin, [Abelin & Goldener] 454—ab
equilibrium, disturbance, [Peters & others] 1318—ab
ELECTROMYOGRAMS: See Muscles
ELECTROTHERAPY, Council on Physical Therapy, [Fishbein] *270
in cosmetic dermatology, [Goodman] *736
in exophthalmic goiter, [Delherm & Laquerrière] 452—ab
in paralysis, 1235
in paralysis following poliomyelitis, [Kovacs] *741
ELEPHANTIASIS, varicose, of legs, [Melletti] 234—ab
ELECTROTHERMY: See Diathermy
ELIXIR DIGITALIN COMPOUND not accepted for N. N. R., 1383—P
ELIXIRS, [Fantus] *1525
ELLA SACHS PLOTZ FOUNDATION, report, 635
EMBOLECTOMY, [Rodriguez & Conntant] 315—ab
successful, [Jefferson] 311—ab
EMBOLISM, air, 368
air, in pneumothorax, [Lindblom] 1873—ab
air, with criminal abortion, [Hulst] 1670—ab
arteriotomy for, [MacDougall] 1655—ab
bacillary, causes septic endocarditis, [Egoroff] 1811—ab
caused gangrene, [Slaughter] *1608
cerebral, in ischemic necrosis of myocardium, [Klionsky] 807—ab
fat, 1076—E; [Weingarten] 1666—ab
fat, after bone surgery, [Schwamm] 1257—ab
fat, and diabetic lipemia retinalis, [Bantin] *546
in striate body, [Schwartz & Goldstein] 384—ab
infected, produces lung abscess, [Cutler & others] 1651—ab
of spinal cord, [Chacko] 1870—ab
pulmonary, [Herrmann] 1726—ab
thrombosis and, [Wyder] 914—ab
EMBRYOLOGY, institute for, Prague, 1711
EMBRYOMA of testis with metastases, [Webb-Johnson] 311—ab
EMERGENCIES, useful diagnostic aid case, [Piercy] *1690
EMETICS and vomiting, [Klee & Laux] 587—ab
strophanthidin, [Dresbach & Waddell] 1725—ab
EMETINE treatment of endamebiasis, [Brown] *457
treatment of amebiasis, [Deuskar] 1945—ab
treatment of liver abscess, [Manson-Bahr & Morris] 807—ab
EMIGRATION: See Immigration
EMOTIONS and blood pressure, [Tigerstedt] 1492—ab
disorders, Kuhlmann test, [Kuhlmann] 1245—ab
effect on leukocyte count, [Mora & others] *945
EMPHYSEMA, generalized, [Reimold] 1490—ab
treatment, [Relch] 1175—ab
EMPLOYER'S LIABILITY: See Workmen's Compensation
EMPLOYMENT for handicapped persons, 214
EMPYEMA, associated organisms causing, [Boldero & Whitby] 1321—ab
carbon dioxide inhalation in, [Churchill] 1864—ab
in children, prognosis, [Smellie] 1869—ab
tuberculous, interlobar, treatment, [Pinchin & Cartledge] 313—ab
EMULSIONS, [Fantus] *1624
ENCEPHALITIS, acute fatal, in whooping cough, [Bonaba & Leunda] 989—ab
comparative anatomy, [Joest] 1173—ab
periaxialis diffusa, [Brock & others] 1654—ab
trichinosis, [Hassin & Diamond] 717—ab
ENCEPHALITIS, EPIDEMIC: See also Poliomyelo-encephalitis
atropine resistance in, [Bremer] 588—ab
atypical, [Neel] 720—ab
blood sugar in, [Kasanin & Grabfield] 1161—ab; [McCowan & others] 1802—ab
chronic, pathology, [Creig] 1799—ab
complications, external rectus paralysis, [Adrogué] 383—ab
diagnosis, [Bouman & Janzen] 80—ab
heart in, [Hanneman] 1326—ab
herpetic, [Remlinger & Bailly] 451—ab, 987—ab; [Pette] 1876—ab
in children, [Acuña] 235—ab; [Bloise & Beisso] 453—ab
influenza and, [Brouwer] 522—ab
mental disease and, [Winther] 386—ab
posttraumatic, [Castex & others] 76—ab
pupils in, [Westhal] 454—ab
sequels, basal metabolism in, [Naccarati] 1581—ab
sequels, hepatic aspect, [O'Flynn & Critchley] 584—ab
sequels, lesions in Parkinson's disease, [Marinesco] 1251—ab
sequels, narcolepsy, [Spiller] *673
sequels, paralysis agitans, pathology, [McKinley & Gowan] 716—ab
sequels, parkinsonian states, [Hassin & Bassoe] 1245—ab
sequels, psychic, [Vidal Jornada] 586—ab
sequels, scopolamine in, [McCowan & others] 1869—ab
sequels, tremor, nicotine in, [Herrmann & Wotke] 316—ab
sequels, tremor on one side, arthritis on other, [May] 1100—ab
special form, [David & Dekster] 1100—ab
treatment, sodium salicylate, [Carnot & Blamoutier] 381—ab
vaccination causes, [Kraus & Takaki] 384—ab; [Brouwer] 522—ab
xanthochromia in, [Rothschild] 1655—ab
ENCHONDROMA of long bones, [Satanowsky] 382—ab
ENCOPRESIS: See Feces, incontinence
ENCYCLOPAEDIA BRITANNICA and osteopathy, [Ward] 137—C
ENDAMEBA histolytica, examination for, by culture, [St. John] *1272
dysenteriae, culture medium, [Kofoid & Wagener] 1866—ab
ENDAMEBIASIS, [Brown] *457
ENDARTERITIS: See Arteritis
Syphilitic: See Arteries, syphilis

ENDOCARDITIS, acute rheumatic, [Clawson & Bell] 1160—ab
auricular, of rheumatic origin, [Von Glahn] 1479—ab
chronic infectious, night cough in, [Hatzieganu & others] 1871—ab
chronic septic, mercurochrome in, [Falconer] 1168—ab
chronic, vaccines from, for septic diseases, [Stahl & Nazell] 384—ab
experimental, [Wright] 1098—ab
gonococcic, [Riecker] 649—ab
infectious, pathogenesis, [Egoroff] 1811—ab
lenta, [Heilborn] 1809—ab
lenta, incidence, [Wauchope] 73—ab
splenectomy in, [Escudero & Merlo] 76—ab
subacute bacterial, [Clawson & Bell] 1160—ab
ENDOCERVICITIS: See Uterus, cervix
ENDOCRINE GLANDS: See also Hormones
after vasectomy, [Rossi] 1408—ab
cancer growth and, [Elsner] 1257—ab
characterization of puberty, [Biedl] 658—ab
disorders in congenital syphilis, [Cedercreutz] 386—ab
endocrine action of gonads, [Kylin] 1490—ab
extracts effect on infusoria, [Levoft] 655—ab
has the appendix an endocrine function? [Moutier & Fouché] 2004—ab
in syphilis, [Vasiliteva] 1955—ab
interglandular associations, [Hammett] 149—ab
metabolism and, [Cannon] 1159—ab
origin of alopecia areata, [Herman] 1665—ab
origin of psoriasis, [Carilion] 1733—ab
starvation and, [Ichok] 75—ab
therapy: See Glandular Therapy
with rat cancers, [Toriumi] 1811—ab
ENDOMETRIOMA, [Herd] 984—ab
ENDOMETRIUM invades bladder wall, [Keene] 148—ab
implants, heterotopic, [Semb] 1878—ab
misplaced, [Sampson] 148—ab
transplantation, experimental intraperitoneal, [Jacobson] 1482—ab
uterine dysembryoplasia and, [Letulle & others] 233—ab
ENDOTHERMY: See Diathermy
ENEMAS: See also Rectum, feeding by
[Fantus] ✱ 1767, ✱1836, ✱1909
ENERGY: See also Exercise
conservation, 902—ab
starvation and, [Hoskins] 69—ab
value of foods, determination, [Benedict & Fox] 1247—ab
vitamin B and, 1987—E
ENTAMEBA: See Endameba
ENTERITIS: See Intestines, inflammation
ENTEROCLYSIS: See Rectum, feeding by
ENTEROLITH: See Intestines, calculi
ENTEROPTOSIS: See Splanchnoptosis
ENTOMOLOGY, medical, 1376
ENURESIS: See Urine, incontinence
ENZYMES, action on insulin, [Shonle & Waldo] 1246—ab
activity of ingested pancreatin, [Aaron & others] 1654—ab
are they protein in nature? 1629—E
coferment, glycolysis and insulin, [Brugsch & Horsters] 809—ab
duodenal, digestive power increased by pancreas preparations, [Silverman & others] 67—ab
models, [Haehn] 1876—ab
tryptic, in gallbladder, [Erb & Barth] 77—ab
EOSIN treatment of rickets, [Vollmer] 1407—ab
EOSINOPHILIA, Constitutional, [Cirio] 1587—ab
diagnostic value, [Schmite] 1100—ab
eosinophilic leukemoid syndrome, [Schmidt-Weyland] 78—ab
spleen extract for, [Mayr] 657—ab
EPENDYMOMAS of brain, [Hirsch & Elliott] 651—ab
EPHEDRINE in asthma, [MacDermot] 2002—ab
EPICONDYLE, fracture at knee, [Ferrarini] 156—ab
EPIDIDYMITIS: See also Orchiepididymitis
suppurating gonococcal, [Ingram] 1728—ab
tuberculous, orchidectomy technic for, [Vivian] ✱23
tuberculous, [Allodi] 1806—ab
EPILEPSY, blood acid-base balance in, [Dautrebande] 1229—ab, 1323—ab
blood ammonia in, [Luck & others] 653—ab
cardiac, [Abascal & Cervifio] 1102—ab
cerebrospinal fluid in, [Patterson & Levi] 1655—ab
employer's duty to epileptic, 1999—MI
jacksonian, International Congress of Surgery discusses, 1993
jacksonian vs. intracranial tension, [Leriche & Wertheimer] 725—ab
National Association for Study of Epilepsy, 1778
seizure, [Rouquier & Vuillaume] 988—ab
seizure, induced, [Janota] 238—ab; [Jelenkiewicz] 585—ab
status epilepticus in cerebral syphilis, [Stuchlik] 522—ab
sympathectomy for, [Bojovitch] 314—ab; [Tinel] 518—ab
treatment, [Buzzard] 1321—ab; [Freudenberg] 1877—ab
treatment, brain emulsion, [Militzyn] 1955—ab
EPILEPSY—Continued
treatment, Hunter's Epilepsy Cure, 1928—P
treatment, starvation, [Karger] 1667—ab
treatment, surgical, discussed at German Surgical Society, 1926
EPINEPHRINE: See also Ephedrine
effect on metabolism, [Papilian & Bendescu] 1323—ab
effect on pregnancy vagotonia, [Váró] 1104—ab
effect on spleen contractility, [Pagniez & others] 381—ab
effect on uterus, [Gruber] 69—ab
hyperglycemia, [Auricchio] 314—ab
in acholuric jaundice, [MacErlean] 807—ab
in asthma, [Pagniez & Escaller] 1948—ab
in cardiac asthma, 1472
in insulin hypoglycemia, 1385
in otorhinolaryngologic surgery, [Laurens] 232—ab
in relapsing fever and malaria, [Mishtchenko] 1408—ab
in rheumatic heart block, [Sutherland] 1397—ab
in tuberculous tracheo-bronchial glands, [Peshkin & Fineman] ✱1429
intracardiac injection, in Adams-Stokes disease, [Levine & Matton] 1728—ab
intracardiac injections, [Petzetakis] 914—ab
intracardiac injections resuscitates newborn, [Garipuy & Meriel] 1101—ab; 1227; [Wachenfeldt] 1255—ab
intravenously, [Petzetakis] 914—ab
output vs. nicotine, [Sugawara] 1168—ab
reaction in hypertension, [Hetényi & Sümegi] 237—ab
secretion in asphyxia, [Houssay & Molinelli] 74—ab
secretion vs. different substances, [Houssay & Molinelli] 74—ab
source of, 1763—ab
test in diagnosis, [Hittmair] 521—ab
tolerance of heart and vessels for, [Ricaldoni] 724—ab
EPISCOPAL CHURCH: See Protestant Episcopal Church
EPISTAXIS: See Nose, hemorrhage
EPITAPH injurious to medical profession, 1708
EPITHELIAL lined tubes and sacs, production, [Davis & Traut] ✱339
EPITHELIOMA: See also Chorio-Epithelioma of vulva, treatment, 499
of skin (de Reszke) 1950—ab
EPIZOOTICS in mice, [Okamoto] 2006—ab
EQUILIBRIUM and seasickness, [Abels] 1667—ab
ERUPTIONS, bullous, from phenolbarbital, [Weber] 983—ab
leukocyte reactions in, [Bunting & Thewlis] 1482—ab
ERYSIPELAS, contagiousness, [Redlich & Krasso] 1668—ab
etiology and treatment with antistreptococcic serum, [Birkhaug] ✱1411
experimental, [Birkhaug] 226—ab
metastases, unusual, [Doberauer] 1736—ab
nephritic edema disappears after, [Pinchin] 232—ab
streptococcus defeat in, 955—E
treatment, blood injection, [Pines] 312—ab; [Deacon] 910—ab
treatment, mercurochrome, [Eldridge] 446—ab
treatment, protein, [Jensen] 992—ab
ERYSIPELOID: See Swine Erysipelas
ERYTHEMA, Epidemic: See Acrodynia
infectiosum, [Herrick] 1795—ab
multiforme complicating vaccination, [Eichenlaub] 1583—ab
multiforme from streptobacillus, [Levaditi & others] 1489—ab
nodosum, [Wallgren] 1492—ab; [Aráoz Alfaro] 1951—ab
nodosum, antiscarlatinal serum in, [Percival] 230—ab
ERYTHREDEMA: See Acrodynia
ERYTHREMIA: See Polycythemia
ERYTHROCYTES: See also Hemoglobin
after splenectomy, [Roese] 521—ab
antigen character, [Wichels] 522—ab
diameter differentiates anemias, [Grosh & Stifel] 980—ab
fragility and digestion, [Acél & Gál] 236—ab
fragility, in syphilis, [Brill] 317—ab
inclusions in, [Mayer & others] 1736—ab
metabolism in anemia, [Denecke] 1255—ab
new blood constituent, [Leimdörfer] 1256—ab
production in cancer and leukemia vs. roentgen-rays, [Isaacs] 1159—ab
reticulated, [Dameshek] 2001—ab
sedimentation, [Cooper] 1866—ab
sedimentation speed in syphilis, [Brill] 317—ab
sedimentation speed in tuberculosis, [Muralt & Weiller] 517—ab; [d'Asaro] 915—ab
sedimentation test, significance, [Bochner & Wassing] 719—ab
size, [Taubmann] 77—ab; [Gustavson] 1812—ab
size, vs. exercise, [Dryerre & others] 1586—ab
structure, [Millar] 233—ab
transfused, viability, [Wildegans] 1254—ab
ERYTHROCYTOSIS in artificially inoculated malaria, [Rudolf & Ramsay] 514—ab
ERYTHROMELALGIA, [Navarro & Sas] 157—ab
ESOPHAGOSCOPY in esophagus cancer diagnosis, [Jackson] 720—ab, 905—ab
in liver cirrhosis, [Gilbert & others] 912—ab
ESOPHAGUS, absence, congenital, [Parrish] ✱33
anomalies, [Theron] 1728—ab
atresia, congenital, with other anomalies, [Thorek] ✱33
cancer, diagnosis, [Jackson] 905—ab
cancer, esophagoscopy for, [Jackson] 720—ab; 905—ab
cancer, radium applicator for, [Fitzgibbon] ✱622
cancer, radium in, [Guisez] 808—ab; [Wassink] 1669—ab
cancer, surgery for, [Torek] 905—ab
dilatation, idiopathic, [Cascão de Anciães] 453—ab
dilatation, in cardiospasm, [Emerson] 806—ab
diverticula, [Jewett & Lichty] 1160—ab
diverticulum, concomitant, and cardiospasm, [Fitzgibbon] ✱1614
examinations, dorsal sitting position for, [de River] ✱748
Fistula: See Fistula
foreign bodies in, [Yankauer] 905—ab
foreign body in, open safety pin removed from, [Drüner] 659—ab
mega-esophagus, [Lentini Diaz] 1735—ab
rupture, spontaneous, [Williams & Body] 582—ab
sacculations, multiple, [Buckstein] ✱1128
stenosis, in elderly, [Guisez] 516—ab
varix, in liver cirrhosis, [Gilbert & others] 912—ab
ESTRUATION, hormone inducing, [Laqueur & others] 727—ab; [Lowe & others] 1875—ab
thyroid feeding effect on, [Cameron & Amies] 1728—ab
thyroid, parathyroid and, [Lee] 1656—ab
ETHER action on bacteriophage, [Stassano & de Beaufort] 655—ab
Anesthesia: See Anesthesia
injections in pertussis, [Pollock] 652—ab
treatment of postoperative bronchitis, [Seidl] 810—ab
ETHICS, MEDICAL, case of Dr. Axham, 636; 1707
medical profession and, 954—E
physicians and newspaper publicity, England, 49; 130; 1373; 1464
ETHYLENE, Anesthesia: See Anesthesia, ethylene
EUGENICS vs. abortion, 639
sterilization, statue valid, Virginia, 1790—MI
EUNUCHOIDISM, [Frölich] 1324—ab
EUTHENICS, 1700—E
EVERHARD, L. O. V., Hoxide cancer "cure", 55—P
EVIDENCE, contractual capacity, evidence of, 64—MI
hearsay, indorsing opinions of others, 901—MI
hospital records, admissibility, 372—MI
malpractice in personal injury case, 371—MI
negligence, injury to others, 1649—MI
paralysis, proof by puncturing arm, 1650—MI
physical examination of plaintiff, compulsion, 1157—MI
Privileged Communication: See Privileged Communication
roentgenograms lost; secondary evidence, 442—MI
seduction, profert of child, 1313—MI
witness, expert, basis of opinion, 1574—MI
witness, expert, competency of, 648—MI
witness, expert, as to insanity, 1860—MI; 1935—MI
witness, expert and non-expert testimony evaluated 63—MI
witness, expert, quotations from books, 901—MI
witness, expert, self-serving declarations as basis, 509—MI
witness, expert testimony evaluated, 1574—MI
witness, expert, when conclusive, 1313—MI
witness, impeachment by medical books, 1649—MI
witness, impeachment for disclosures by physician, 578—MI
EVOLUTION and Book of Genesis, 48
anti-evolution league, North Carolina, 1704
great apes and man, 1084; 1156; 1390
Mississippi governor signs antievolution bill, 960
EVRECO OIL rubs, 1459
EXANTHEM: See Eruptions
EXERCISE: See also Athletics; Energy; Physical Therapy
blood flow during, [Bock & others] 1936—ab
China's two systems of gymnastics, 1342—ab
effect on blood and urine phosphates, [Havard & Reay] 1802—ab
effect on erythrocyte size, [Dryerre & others] 1586—ab
effect on heart size, [Gordon] 304—ab
effect on insulin action in diabetes, [Lawrence] 1728—ab
effect on urine, 39—E; [Liljestrand & Wilson] 70—ab; [Wilson & others] 70—ab
metabolism in dancing, [Grönholm & others] 386—ab
muscular hardness and, [Opitz & Isbert] 990—ab
physiology of "second wind," 1840—E

EXERCISE—Continued
respiratory quotient in diabetes and, [Richardson & Levine] 448—ab
stomach secretion after, [Delhougne] 917—ab
EXOPHTHALMOS, pulsating, [Baron] 381—ab
EXTERNS: See Interns
EXTREMITIES: See also Arm; Leg
circulation in, intracutaneous salt solution test, [Cohen & others] *1677
lower, pain in, sacral epidural injection for, [Viner] 225—ab
supernumerary, function of, [Kahn] 77—ab
EXUDATES, amino-acids and sulphur from, pass into blood, [Loeper & others] 987—ab
surface tension, [Gluffrè] 1403—ab
treatment, calcium chloride, [Oriani] 2004—ab
treatment, glucose, [Latzel] 237—ab
Wassermann reaction in, [Pansini] 916—ab
EYE: See also under special structures of eye disease; gonococcus antigen test, [Boru & Sherishorina] 730—ab
examination, diagnostic value, [Crulse] 723—ab
foreign body in, tolerance of, [Adrogüe & Crocco] 76—ab
Idiosyncrasies, [Fehr] 1874—ab
implanted, restores sight in triton, [Matthey] injuries from infra-red, [Vogt] 1873—ab
injuries, industrial, [Eisehnig] 316—ab
Kilieg eyes, 138; [Brown] 436—C
loss of, under workmen's compensation act, 1935—MI; 1999—MI
medication, technic, [Fantus] *483
pressure in, reducing, [De Jongh & Wolff] 1592—ab
radiation, [Cords] 78—ab
shield, [Adson & Schroeder] *1835
tuberculosis, [Vidal Fraxanet] 382—ab
tuberculosis, extensive, in infant, [Li] 449—ab
EYELID, upper lid symptom, [Gerwer] 590—ab
EYESIGHT: See Glasses; Vision
EYE-WASH for removing chemicals, 1472

F

FABELLA, [Simon] 1669—ab
FACIAL PHENOMENON: See Chvostek's Sign
FACE cancer, relief for pain in, [Grant] *173
FALLOPIAN TUBE, anomalous, ectopic pregnancy of, [Steckbauer] *621
injuries, Bell-Beuttner operation for, [Bell] 582—ab
nodes and cysts on, [Schiffmann & Steiner] 1104—ab
patency, testing (Rubin test), paroxysmal tachycardia following, [Kern] *623
rupture, with double tubal pregnancy, [Clow] *1979
salpingitis, acute, vs. appendicitis, [Ten Berge] 991—ab
salpingitis, bilateral gonorrheal, in child, [Joannides] *1518
salpingitis, intra-uterine ovary transplantation in, [Serdukoff] 1805—ab
torsion, [Jefferson] 909—ab
volvulus, [Gabe] 1580—ab
FASCIA grafts, dead, in hernlotomy, [Koontz] 2001—ab
FASCIOLA hepatica, intermediate host of, [McKay] 1803—ab
FASTING: See also Hunger; Starvation
cause of convulsions, [Joseph] 1243—ab
inflation of omentum, [Brossok] 729—ab
subcutaneous, in infants, chemical nature, [Channon & Harrison] 1398—ab
wool, vitamin A in, [Gudjonsson] 1315—ab
FATIGUE and disease, 753—E
effect on infection, [Boycott & Price-Jones] 1099—ab
muscular, and electromyograms, [Laubry & others] 1664—ab
muscular, and inaulin, [Karásek] 522—ab
FECES, blood in, provocation, [Boas] 1406—ab
fat in, [Fowweather] 1399—ab
fat in, estimation, [Fowweather] 1399—ab
incontinence, [Weissenberg] 1407—ab
mites in, [Hieronymi] 384—ab
pu of, [Löffler] 1173—ab
protozoa, in temperate zone, [Smithies] 978—ab
tubercle bacilli in, [Syke] 1167—ab
vibrios, isolating and cultivating, [Tomb & Maitra] 1585—ab
FECUNDITY: See also Reproduction; Sterility
health and, [Macomber] 1582—ab
of young married Japanese women, 1146
relative, and sexuality, [Hartmann] 918—ab; 1147—ab
FEDERATION OF AMERICAN SOCIETIES FOR EXPERIMENTAL BIOLOGY, bureau of information, 1995—C
FEEBLEMINDED: See Mental Defectives
FEES: See also under Workmen's Compensation bills, acceptance of as acknowledgment of debt, 441—MI
FEES—Continued
liability in personal injury case, 1095—MI
liability of divorced father, 509—MI
liability of employer, 1726—MI; 1999—MI
liability of third party, 1650—MI
license, allegation of, unnecessary, 1650—MI
prospective, right to recover for, 715—MI
reasonableness, evidence of, 143—MI
reasonableness of, 1999—MI
statute of frauds, promise of landlord to pay, 441—MI
statute of frauds, promise by mother to pay, 441—MI
FEET: See Foot
FELLOWSHIP: See also Scholarship
Charles Mickle Fellowship for 1924, 426
in neuropsychiatry, 1559
National Research Council, 1559; 1846
offered by Henry Phipps Institute available, 1222
FELSENREICH, A., death of, 887
FEMUR dislocation, bilateral central, [Jachia] 165—ab
fracture of neck, [Carothers] 302—ab
fracture, subcapital, of neck, [Whitman] *926
fracture, using direct bone extension, 59
sarcoma complicating osteitis deformans, [Camp] 228—ab
FERMENTATION, effect on vitamin C, [Lepkovsky & others] 448—ab
FERMENTS: See Enzymes
FERTILITY: See Fecundity
FETUS asphyxia, chloroform inhalation, [Willkomm] 455—ab
blood groups in mother and, [Cathala & Le Rasle] 234—ab; [Ohnesorge] 385—ab; [Du Bouchet] 1262—ab; [Hirszfeld & Zborowski] 1402—ab, 1953—ab; [Allen] 1656—ab
blood sugar in mother and, [Hellmuth] 1807—ab; [Révész & Turolt] 1878—ab
damage to, from irradiation, [Martius & Franken] 660—ab
death, roentgen-ray diagnosis, [Tengbergen] 1592—ab
injury, malformation of spine, [Buckell] 378—ab
injury, syphilitic, [Nürnberger] 1738—ab
malformations, multiple, [Mills & Walpert] 978—ab
mixed tumor of thyroid in, [Bell] *1616
palpation of, in abdomen, [McCormick] 148—ab
polyarthritis in, [Richdorf & Griffith] 1243—ab
rotation, manual intra-uterine, [Smith] 1797—ab
vagina, glycogen in, [Grazert] 1807—ab
FEVER, channel, [Bohec] 1587—ab
Guacarapa: See Guacarapa Fever
hyperpyrexia from syphilitic meningitis, [Monateri] 1253—ab
Milk: See Milk-Fever
nitrogen metabolism in, [Beck] 1953—ab
Oroya: See Oroya Fever
peptidases in, [Pfeiffer & Standenath] 1809—ab
protracted, from syphilis, [Figari Legrand] 1102—ab
resembling typhus, [Wheatland] 1663—ab
significance, [Isenschmid] 452—ab
Treatment: See also Malaria, therapeutic; Relapsing Fever
treatment of multiple sclerosis, [Dreyfus & Hanau] 1588—ab
Undulant: See Malta Fever
water metabolism in, [Pribram] 316—ab
FIBRINURIA: See Urine
FIBROMA of posterior mediastinum, [Cokkalis] 1172—ab
phosphatemia and, [Dalsace & Cuillaumin] 451—ab
roentgen ray diagnosis, [Ferré] 724—ab
uterine fibroids, myomectomy for, [Bonney] 231—ab
FIBROMYOMA, uterine, treatment, [Hewitt] 652—ab; [Martindale] 984—ab; [Ford] 1164—ab; [Ucrós & De Francisco] 1588—ab
FIBROSARCOMA of thyroid, [Zeckwer] 1317—ab
FIBROSITIS: See also Rheumatism
periarticular, 1005—ab
FIBULA, atrophy, inheritance of, [Macklin & Bowman] *813
FIELD, C. EVERETT, Koch's "Cancer Antitoxin", 1470—P
FILATOW-DUKES DISEASE, [Hochsinger] 1256—ab
FILMS, gelatin, [Fantus] *195
moving-picture, antituberculosis, Netherlands, 1086
moving-picture, illustrating syphilitic lesions and skin diseases simulating syphilis, for medical societies and schools, 207
nonabsorbent, [Fantus] *115
FINGER-NOSE TEST: See under Cerebellum
FINGERS: See also Nails; Phalanges
amputation, traumatic, of two, with laceration of hand, [Loeb] *1345
autotransplantation of toe for traumatic loss of, [Fuld] *1281
contracture, familial, and associated familial knee-joint subluxation, [Murphy] *395
hippocratic, [Léri] 155—ab
opponens paralysis of thumb, surgery for, [Howell] 911—ab
FINGERS—Continued
scleroderma, [Poussepp & Rives] 1730—ab
syphilitic dactylitis, [Lereboullet & others] 154—ab
FIREARMS, identifying criminal's gun, 874—E
FIRST AID, international congress on, 567; 1371
supplies, Red Cross competition, 1082
FISH, tumors in, [Takahashi] 1811—ab
FISTULA, anal, ischiorectal abscess and tuberculosis, [Clarke] 1400—ab
between bladder and small intestine, [Knapper & others] 80—ab
between liver and bronchus visualized, [Escudero & others] 1404—ab
bile, osteoporosis and malacia after, [Dieterich] 77—ab
duodenal, blood changes from, [Walters & others] *186
esophageal, [Thorek] *33
gastrojejunocolic, 50; [Verbrugge] 718—ab; [Applemans] 1402—ab
intestinal, preventing skin excoriation in, [Smith & Christensen] 373—ab
of thoracic duct, in peritonitis, [Klug] 1172—ab
pancreatic, [López Isnardi & Zanardo] 809—ab
pancreatic, consecutive to cyst, [Gutiérrez] 382—ab
perineal urethral, [Botteselle] 1403—ab
vesicorectal or vesicovaginal, [Clairmont] 1667—ab
FIXATION ABSCESS: See Abscess
FLAGELLA, staining, 1235
abnormal bacteria flagella in cultures, resemblance to spirochetes, [Noguchi] *1327
FLATULENCE, [Campbell] 1394—ab
FLEAS, carriers of disease, 714
FLINT'S SIGN: See Heart, murmur
FLOCCULATION, serum, in infections, [Georgescu] 987—ab
test in tuberculosis, [Hardesty] 1581—ab
FLOODS, Belgium, 1144
FLORENCE FORMULA, 435—P
FLUKES, snails carry, [Bradley] 1321—ab
FLUOROSCOPY: See Roentgen Rays
FOLKLORE, medical, in Java, [Bier] 238—ab
Chinese proverbs, 475—ab; 674—ab; 876—ab; 1001—ab
FOLKMAR, ELNORA C., 1471—P
FOLLICULOMA, [Manheims] 1939—ab
FOOD: See also Diet; Meat; Nutrition; Vitamins; etc.
allergy; immunizing against egg, 1308
calcium, A. M. A. poster, 1714
cancer growth and, [Ludwig] 1257—ab
canned, [Van Leersum] 1670—ab
canned, possibility of being poisoned from, 871—E
canned vs. fresh, vitamin value, [Eddy] 1722—ab
cholesterol in, [Salomon & Silva] 1405—ab
combinations, 572
correlation, [Nassau & Schaferstein] 1407—ab
energy value, determination, [Benedict & Fox] 1247—ab
glucose as food, 628—E; [Wiley] 1306—C
intestinal secretion and, [Rosenbaum] 658—ab
nutrition and, 418—E; 534—ab; [Emerson] 708—C
pies and cake forever, 1773—E
poisoning bacteria, differentiation, [Brown & others] 911—ab
poisoning from canned food, 871—E
poisoning from duck egg, 1084
poisoning outbreak due to rat virus, [Spray] *109; 1715
preservatives, ban on, England, 360; 702
pure food regulation, Bucharest, 1464
response of normal stomach to, [Hawk & others] 1796—ab
survey by U. S. Department of Agriculture, 1462
toxic elements in, [Mouriquand] 2004—ab
ultraviolet ray irradiation, [Mackay & Shaw] 722—ab
value of yeast, [Engel] 727—ab
vitamins in, A. M. A. poster, 1383
FOOT gangrene, [Kiefer & others] 981—ab
gangrene, complicating malaria, [Slaughter] *1610
tuberculosis, at seashore sanatorium, [Vayola-Coco] 156—ab
ulcer, perforating, 1152
FOOT AND MOUTH DISEASE eradicated from U. S., 1846
in animals in England, 1993
virus, [Bella] 913—ab
FOOT DEFORMITY, clubfoot, etiology, [Bearse] 1317—ab
"dangle foot", operation for, [Morison & Mackenzie] 1164—ab
flatfoot, blocking external popliteal nerve for, [Meyer] 587—ab
pes cavus of congenital syphilis, [Goff] *392
talipes equinus, spastic, correction, [Camera] 1403—ab
FORCEPS in Labor: See Labor
FOREHEAD: See Supra-Orbital Region
FOREIGN BODY: See also under organs and regions
migration, [De Saint-Avid & Léonard] 2004—ab
FORMALDEHYDE fumigators, 505
FORMULATIONS, 1566—P

FOSSILS: See Anthropology
FOURTH DISEASE, [Hochsinger] 1256—ab
FOURTH OF JULY, safe and sane, 280—E
FRACTURES: See also Malpractice and under names of bones
age of, roentgenologic gage, [Andrel] 2004—ab
diagnosis, auscultatory percussion, [Vigavani] 453—ab
healing, [Blaisdell & Cowan] 1483—ab
healing, and avitaminosis, [Israel & Fränkel] 1103—ab
muscle and nerve injuries in, [Lewis] 1380—ab
osteomyelitis and malpractice, 142—MI
subperiosteal, [Müller] 1104—ab
treatment, [Newell] 302—ab; [Lehrnbucher] 587—ab; [Matti] 1875—ab
treatment, blocking nerve in, [Müller] 1491—ab
treatment, bone band and band introducer, [Hagie] *840
treatment, local anesthesia in, [Cohen] *1896
treatment, metal bolts, screws and wire in, [Valls] 1807—ab
ununited, [Henderson] *81
FRAMBESIA, crusade against, East Indies, 1375
immunity, [Nichols] 305—ab
research, 1557
tropica, tertiary lesions, [Bittner] 1724—ab
FREUD, SIEGMUND, 70th birthday, 1850
FRIGHT, fear of miscarriage not compensable, 1095—MI
liability for results of, 372—MI
FRITZ, W. WALLACE, 1476—P
FROIN SYNDROME: See Xanthochromia
FRONTAL BONE, hypertrophy, [Dereux] 1486—ab
osteomyelitis complicating frontal sinusitis, [Bulson] *246
FRONTAL SINUS, inflammation complicating frontal bone osteomyelitis, [Bulson] *246
FRUCTOGEN formation, levulose and diabetes, [Steinberg & Elberg] 384—ab
FRUCTOSURIA: See Urine
FUMIGATION: See also Disinfection
formaldehyd fumigators, 505
FUNGUS: See also Yeast
in sputum, [Mathur & Zutschi] 72—ab
Infections: See Blastomycosis; Mycosis; Ringworm; etc.
FURUNCULOSIS from wrestling mats, 709
treatment, [Junkermann] 1809—ab
FUSEL OIL, hazards of lamp shade industry, 1715

G

GALLBLADDER calculi, grave hemophilia in jaundice from, [Weil & Stieffel] 987—ab
calculi, in children, [Carey] *1209
calculi, in liver, [Hansen] 1956—ab
calculi, intrahepatic, [Judd & Burden] 1659—ab
calculi obstruct intestine, [Bennett] 1661—ab; [Coldrey] 1870—ab
calculi, treatment, [Digby] 1096—ab
contraction, vs. certain drugs, [Chiray & others] 1100—ab
deformities, congenital, [Garcia-Lagos & others] 156—ab
disease, [Miller] 444—ab; [Schondube & Kah] 455—ab
disease and gastro-intestinal infections, [Soper] 376—ab
disease, diagnosis by cholecystography, [Stewart & Ryan] 651—ab
disease, secondary evidence, [Belden] 1315—ab
disease, surgery of, [Mayo] 444—ab
drainage, ascaris ova in, [Preston] 1584—ab
dysentery bacilli in, [Connal & Smith] 153—ab
function, [Delrez & Cornet] 233—ab
function observed by cholecystography, [Whitaker] *239
inflammation, [Judd] 1801—ab
inflammation, and diabetes mellitus, [Ricen] 1801—ab
inflammation, and lambliasis, [Pappalardo] 518—ab
inflammation, duodenal treatment, [Allard] 1811—ab
inflammation, typhoid, [Schottmüller & Fraenkel] 384—ab; [Pomeroy & Shen] 579—ab
lambliasis, [Labbé & others] 380—ab
lambliasis and cholecystitis, [Pappalardo] 518—ab
pain in, vs. pregnancy, [Parturier] 1403—ab
roentgenography, [Wilkie & Illingworth] 311—ab; [Graham & others] 651—ab, *1899; [Richter] *857; [Barcia & others] 989—ab 1230; 1710; [Saralegui] 1734—ab; 1994
roentgenography by oral method, [Stewart] 443—ab, 1379—ab; [Chiray] 1100—ab
roentgenography in gallbladder disease diagnosis, [Stewart & Ryan] 651—ab
roentgenography, in surgical cases, [McCoy & Graham] *1899
roentgenography, iodine salt in, [Saralegui] 651—ab
roentgenography simultaneous with hepatic and renal function tests using sodium phenoltetraiodophthalein, [Graham & others] *467, *1899
GALLBLADDER—Continued
roentgenography using sodium tetra-iodophenolphthalein, [Whitaker] *239
roentgenography using tetraiodophthalein sodium, [Brams & others] 653—ab
roentgenography, value, [Boardman & McKenzie] 805—ab
strawberry, [Lecène & Moulonguet] 913—ab
surgery, cholecystography previous to, [McCoy & Graham] *1899
surgery, exploring bile duct in, [Alvaro Covarrúbias] 1404—ab
surgery, irrational, repair of, [Walzell] 1808—ab
tryptic ferment in, [Erb & Barth] 77—ab
vomited, with subphrenic abscess, [Fernström] 730—ab
GALL-DUCTS: See Bile Ducts
GALLSTONE: See Gallbladder, calculi
GALVANOCAUTERY for cornea ulcers, [De Saint-Martin] 1488—ab
for laryngeal tuberculosis, [De Reynier] 1488—ab
GANGLION: See also Gasserian Ganglion; Meckel's Ganglion; etc.
basal calcification, [Rural] 1099—ab
basal, thalamus function and syndromes, [Roussy] 992—ab
root, alcohol injection of, controls pleuritic pain, [Swetlow] 904—ab
GANGRENE: See also Lungs; Pancreatitis; Scalp; etc.
acute, after trauma, [Finaly] 1811—ab
etiology and mechanism, [Slaughter] *1608
gas, and tetanus, [Meyer] 1394—ab
of malarial origin, [Slaughter] *1607
spontaneous [Stühlern & others] 78—ab; [Stradin] 1172—ab
surgical intervention in aged, [Noon] 379—ab
sympathectomy in, [Pierl] 518—ab; [Stradin] 1172—ab; [Diez] 1486—ab
threatened, treatment, [McEwan] 1098—ab
GARAGES, sanitary regulations for, 1081
GARGLE, [Fantus] *624
GARLIC, pharmacology, [Sunzeri] 1734—ab
GAS inhalation, [Fantus] *551
illuminating, causes carbon monoxide poisoning, [Leffmann] 1714—C
Poisoning: See Carbon Monoxide poisoning
war, digestive tract disease due to, 131
war, effects, board of physicians appointed by Veterans' Bureau to study, 882; 1300
GASOLINE, poisoning from swallowing it, treatment, 1235
protecting hands against, 1643
Tetra-ethyl: See Tetra-Ethyl Lead
GASSERIAN GANGLION syndrome, 132
cutting Gasserian motor root for facial neuralgia, [Christophe] 1871—ab
posterior root extracted for trigeminal neuralgia, [Sachs] 1318—ab
GASTRECTOMY: See Stomach, surgery
GASTRIC JUICE: See Stomach secretion
GASTRITIS: See Stomach inflammation
GASTRODUODENAL TUBE: See also Duodenal Tube
tip for, [Elzhorn] *1615; [Sagal] 1930—C
GASTRODUODENOSTOMY, [Hughson] *1275
GASTRO-ENTERITIS, leukocytes in, [Heissen] 521—ab
GASTRO-ENTEROSTOMY, action of, [Nicolayesen] 730—ab
failure, cause, [Lewisohn & Feldman] 580—ab
loop detachment causes intestinal occlusion, [Chiari] 1491—ab
vicious circle in, prevention, [Mosti] 915—ab
GASTRO-INTESTINAL TRACT Disease: See also Digestion; Dyspepsia; Nutrition
disease due to war gas, 131
disease, graduate course on, University of Vienna, 887
disease, rôle vs. mesentery, [Gray] 1320—ab
hemorrhage of new-born, 1563
infections and gallbladder disease, [Soper] 376—ab
motility, nature of, 1838—E
resorption and insulin, [Koref & Mautner] 1173—ab
spasm in, [Steindl] 1667—ab
throat disease and, [Allaga & Marenco] 1735—ab
GASTROJEJUNOSTOMY in diabetic patient, [Leyton] 312—ab
stomach cancer after, [Beatson] 722—ab
GASTROPTOSIS: See under Splanchnoptosis
GAUCHER'S DISEASE: See Anemia, splenic
GELATIN treatment of visceral pains, [Marguliis] 513—ab
GENE: See under Heredity
GENERAL MEDICAL COUNCIL: See also British Medical Register
vs. lay press, 49; 136; 1373; 1464
GENITALS, female, preparation for marriage, [Van de Velde] 1592—ab; 1736—ab
GENITO-URINARY TRACT: See also Bladder; Genitals; Urinary Tract; etc.
medication, [Fantus] *1981
surgery, gentleness in, [Clark] *1189
GENIUS and insanity, 264—ab
GENTIAN VIOLET solutions, preparation for intravenous injection, [Burke & Newton] *529
use in gram stain, 1308
GERMANISMS in Dutch language, [Schut] 1384—C
GERMANY, Berlin faculty welcome American physicians, 209; [Peck] 436—C
GHEDINI-WEINBERG TEST: See Echinococcosis
GHON, ANTON, 60th birthday, 704
GIARDIASIS: See Lambliasis
GINGIVITIS: See Gums, inflammation
GLANDERS in Austria, 1850
GLANDULAR FEVER, acute, [Brooks & Marshall] 1868—ab
GLANDULAR THERAPY, [Vincent] 312—ab
for increasing height, 803
in hypogenital ascites, [Stanganelli] 916—ab
in menstrual disorders, [Donovan] 307—ab
in tuberculosis and senility, [Korenchevsky] 231—ab
value, [Brown] 312—ab
GLARE, physiologic aspects, 488—E
GLASS permeable to ultraviolet rays, 220
optical, British Optical Convention, 1780
GLASSES, full vision bifocal operating, [Metzenbaum] *193
GLAUCOMA, treatment, softening principle, [Hamburger] 809—ab
intraocular pressure in, reducing, [De Jongh & Wolff] 1592—ab
GLIOMA calcification, [Van Dessel] 1486—ab
of brain, [Swift] 514—ab
GLOBOID BODIES, 1354—E
GLUCOSANE, 1626—E
GLUCOSE: See also Dextrose; Neoglucose
corn sugar as preservative, 494
GLYCERIN for vaginal lubricant, 645
in ankylostomiasis, [Shelley] 1729—ab
GLYCOGEN storage and insulin, [Adlersberg & Porges] 1172—ab
in fetal vagina, [Gragert] 1807—ab
GLYCOLYSIS: See also Blood glycolysis
activated by tumor extracts, [Waterman] 653—ab
insulin, coferment and, [Brugsch & Horsters] 809—ab
GLYCOSURIA: See also Diabetes; Urine, sugar
[Moeller] 988—ab
benign, and diabetes, [Holst] 456—ab
diagnosis, yeast method, [Castellani & Taylor] *523; 892—C; [Elnhorn] 892—C
hyperglycemia without, [Rathery & Froment] 1948—ab
"lag," [Watson] 1250—ab
of pregnancy, [Ellas & others] 317—ab; [Adlersberg & Porges] 1952—ab
paradoxic insulin phenomenon, [Fornet & Christensen] 1489—ab
relation of infundibulum, tuber cinereum, and pituitary to, 964; [Roussy] 1322—ab
Renal: See Diabetes, Renal
treatment, diathermy, [Bordier] 726—ab
treatment, dihydroxyacetone, [Mason] 2002—ab
GOAT'S Milk: See Anemia; Milk
Serum: See Serum
GOITER: See also Hyperthyroidism; Hypothyroidism; Thyroid
adolescent, gas and iodine metabolism in, [Eckstein & Mommer] 659—ab
aphonia from, [Shuman] *1981
Chagas' disease and, [Chagas] 1809—ab
endemic, [Berry] 1167—ab; [Schmitz-Moorman] 1174—ab
endemic, etiology, [Ritzmann] 79—ab
endemic, in New Zealand vs. its soil iodine, [Benson & Carter] 654—ab; 953—E
incidence among Indians, [Rush & Jones] 69—ab
incidence among Manitoba school children, [Hamilton] 377—ab
increasing in Hungary, 886
prevention, [Wagner-Jauregg] 79—ab
prevention, in nongoitrous areas, 1984—E
prevention, Piedmont, Italy, 1375
prevention, salmon in diet, [Jarvis & others] *1339
prevention with iodized salt, [Hartsock] *1334
pulmonary tuberculosis and, [Hittmair] 521—ab
streptococcus relation to, [Cantero] 582—ab
Toxic: See Goiter, Exophthalmic; Hyperthyroidism
treatment, iodine, 1715
treatment, piece of parenchymatous goiter grafted under oblique muscle, [Mezö] 1669—ab
GOITER, EXOPHTHALMIC, blood circulation in, [Liljestrand & Stenström] 456—ab
blood pressure in, [Troell] 660—ab
diagnosis, [Troell] 314—ab
heart in, [Bickel & Frommel] 1666—ab
insulin and gas metabolism in, [Meyer] 237—ab
liver injury in, [Youmans & Warfield] 1160—ab
prognosis in, [Read] 1578—ab
radiotherapy, [Stevens] 653—ab
surgery of, iodine and rest in, [Clute] *1105
surgery of, total thyroidectomy, [Gilman & Kay] 1578—ab
treatment, [Troell] 314—ab; [Gram] 1956—ab
treatment, digitalis, [Kark] 456—ab
treatment, electrotherapy, [Delhern & Laquerrière] 452—ab

GOITER, EXOPHTHALMIC—Continued
treatment, iodine, [Clute] *105; [Merke] 914 —ab; 1715
treatment, iodin, histologic changes from, [Rienhoff] 226—ab
GOLD, Treatment of Tuberculosis: See Tuberculosis, treatment
colloidal gold solution, titration, [Novick] 1724—ab
GOLGI, CAMILLO, death of, 1228
GONADS: See also Ovary; Testicle
endocrine action of, [Kylin] 1490—ab
in puberty, [Bledl] 658—ab
GONOCOCCUS antigen test, [Boru & Sherlshorina] 739—ab
culture medium, [Pelouze & Viteri] *684
lytic action of serum on, [Scaltritti] 154—ab
vaccine, preservative, [Alvarez Sainz de Aja] 382—ab
vaccine, use of, 1091
GONOLIN, 972
GONORRHEA: See also Venereal Diseases
clinic, statistics, Switzerland, 567
diagnosis, Danin's test, [Rehn] 78—ab; [Volkmann] 659—ab
diagnosis in women, [Schultz] 79—ab
diagnosis, vaccine intracutaneously, [Köhler] 919—ab
in men, [Balog] 1255—ab
in women, [Maier] 1738—ab
infection, bilateral salpingitis in child from, [Joannides] *1518
treatment, diathermy, [Van Putte] 992—ab
treatment, Gonolin, 972
treatment, technic, [Fantus] *1981
treatment, vaccine, 1091
vagina acidity and, [Rehn] 78—ab; [Caffier] 919—ab
GORILLA: See Apes
GOUT, therapeutic use of antagonism between tuberculosis and, [Hervouet] 155—ab
treatment, 362
treatment, thorium, [Cluzet & others] 1101 —ab
GRAAFIAN FOLLICLE: See Ovary, vesicular follicle
GRADENIGO, GIUSEPPE, death, 1710
GRAFTS: See Bone; Ovary; Transplants; etc.
GRANULOMA venereum, [Goldzieher & Peck] 1939—ab
GRAVES' DISEASE: See Goiter, Exophthalmic
GROSS, EMILE, anniversary of, 431
GROUP PRACTICE: See Medicine, group practice
GROWTH: See also Tissue, culture
of rats, vs. environment, [Vollmer] 1877—ab
tethelin effect on, [Robertson & Ray] 583 —ab
theophylline effect on, [Fröhlich & Zak] 237 —ab
thymus cell constituents, effect on, [Miyagawa & Wada] 231—ab
thyroid, parathyroid and, [Hammett] 1656—ab
ultraviolet rays and, [Springer & Tardieu] 1947—ab
weakness in power to grow and congenital dwarfism, [Jansen] 1324—ab
GUACARAPA FEVER, [García] 1806—ab
GUANIDINE poisoning, [Fühner] 1667—ab
significance, [Paton] 583—ab
theory of parathyroid tetany, [Collip & Clark] 1866—ab
GUILD OF HEALTH, [Paulsen] *1623
GUMMA acquired in congenital syphilis, [Montpellier] 1401—ab
of pituitary, [Broussilovski] 913—ab
GUMS inflammation from Trichomonas buccalis, [Hogue] 979—ab
GYMNASTICS: See Athletics; Exercise; Physical Education
GYNECOLOGY, periarterial sympathectomy in, [Bittmann] 1487—ab
obstetric and gynecologic congress, 916—ab; 1146

H

HABITUS and psychiatry, [Kolle] 1809—ab
HACKBERRY, (Celtis) pollen causes asthma, [Kahn] *346
HAFF DISEASE, [Scholz] 1325—ab
HAIR, bleaching, scalp gangrene after, [von Berde] 1406—ab
dye, 60; 1856
dye, injury from, 1993
excessive, electrolysis for, [Kovacs] 969—C
excessive, removing, 709
growth stimulated by cholesterol, [Jaffé] 1667 —ab
tonic; quinine rash, [Zacharias] 1590—ab
HALLUCINATIONS, lilliputian, 132
HAND: See also Fingers
artificial, accident, [Putti] 915—ab
clubhand, congenital, [Jones & Roberts] 1098 —ab
severe laceration with traumatic amputation of 2 fingers, [Loeb] *1345
surgeon's, bronze cast of, 1561
wounds of, 214
HANGMAN, practice of medicine by, [Van Andel] 80—ab
HANOVIA CHEMICAL AND MANUFACTURING COMPANY, Kromayer lamp, 972
HARRISON NARCOTIC ACT, Congress reduces tax, 562
HARRISON NARCOTIC ACT—Continued
incubus of, 1458—E; 1633; 1778; [Morsman] 1786—C
prescription, liability of pharmacist, 1157—MI
prescriptions, rights of physicians, 899—MI
registration under, 1841—E
Revenue Act of 1926, 692—E
strengthening, 1473—ME
U. S. Supreme Court distrusts, 627—E
HARVEY COMPANY, Gonolin—Luesan, 972
HAY, antirachitic properties, [Steenbock & others] 1246—ab
HAY-FEVER, [Benjamins & others] 1955—ab
calcium deficiency in, [Brown & Hunter] 446 —ab
menstruation in, [Joachimovits] 1407—ab
pollen survey, system for, [Koessler & Durham] *1204
treatment, pollen extract of Bermuda grass intradermally, [Phillips] *182
HAY TEST: See Liver function tests
HEADACHE: See also Migraine
from lumbar puncture, [Greene] *391; [Alpers] 447—ab
mental disease and, [Dickerson] 1583—ab
occipital, in sinusitis, [Béhague & Dufourmentel] 586—ab
with nasal and eye discharge, [Vallery-Radot & Blamoutier] 380—ab
HEALTH: See also Hygiene; Sanitation; Vital Statistics, morbidity
agencies, voluntary, 1440—ab
American Health Congress, 494
American idealism in public health, 1217—E
Associated Health Institutions, et al., 644—P
boards of, emergency expenses, authorization, 1240—MI
congress, Brazil, 1303
courses in public health, Brazil, 966
definition of, 622—ab
education by expositions and exhibits, [Ferguson] 145—ab
education by health associations, [Dearholt] 145—ab
education by motor truck, 125
education by public health departments, [Osborn] 146—ab
education, compulsory, in normal schools, 42
education, cooperation between medical organizations and public, 956—E
education from physician's standpoint, [Phillips] *1261
education from standpoint of public, [Philleducation in Italian army, 885
education in preventing heart disease, [Townsend] 1867—ab
education, President-Elect Phillips address, 1293
education, university extension work, [Sundwall] 757—ab
Examination: See Physical Examination
exhibit, biennial, Rome, 1375
expositions and exhibits educate laity [Ferguson] 145—ab
expositions at Düsseldorf, 1377
expositions in Czechoslovakia, 432
fecundity and, [Macomber] 1582—ab
in college students, [Emerson] *1511
Insurance: See Insurance, health
laws, financial burden of, does not invalidate, 1999—MI
maintenance of, 619—ab
ministry changes, Czechoslovakia, 432
ministry of, Prague, 1466
movements, present-day, nature of, 1981—ab
National Health Service, 502—P
National Public Health School, Spain, 1849
needs of New York, 1915—E
New Health Society, England, 361
nurse, public health, qualifications, 1271—ab
nursing, adequate public health, 1511—ab
nursing, public, cost of, 1916—ab
officers, adjusting war pensions, Italy, 1375
officers, annual conference of, 1559
officers, Berlin, 500
officers, Chicago Medical Society resolutions on, [Winslow] 57—C
officers, expenses, out of state conventions, 1575—MI
officers, Interchange of Medical Officers, 209
officers, International Conference of Medical Officers, 498
officers, saving wage for, 202—E
open air and, 495
organization, rural, 1676—ab
Pan-American Health Conference, 1371
physical aptitudes, 953—E
physical fitness in college, [Emerson] *1511
prizes for manuscripts on, 1557
program, communal, 1625—ab
propaganda and the press, 1376
propaganda, public health, ambulatory instruction ships promote, Italy, 885
public health and insurance, 704
public health in Jugoslavia, 1847
report, annual, Hawaii, 1778
Royal Institute of Public Health, England, 1847
service, efficiency of, 550—ab
service, federal, Germany extends functions of, 53
service for individual, 814—ab
service for insurance policyholders, [Musgrave] 1644—ME
service, rural, increase in, 1846
HEALTH—Continued
service, section for study and reform of, 967
teaching public health viewpoint to medical student, [Royer] 1571—ME
10 rules of, 215
U. S. health activities, bill to coordinate, 881
U. S. Public Health Service, entrance examination for, 47; 636; 1635
U. S. Public Health Service, films on syphilitic lesions, 207
university extension work in public health, [Sundwall] 757—ab
Vienna's budget for public health, 887
Voltaire and public health, 828—ab
week, Germany, 1304; 1779
HEARING: See also Deafness
test, bone conduction fundamentals, [Fowler] 511—ab
HEART: See also Blood circulation; Cardiovascular System; Pulse; etc.
action, [Wiggers] 649—ab; [Haberlandt] 79—ab
anomalies, congenital, [Melle] 153—ab; [Zadoc-Kahn & Cousin] 155—ab
anomalies, congenital, in mongolism, [Armand Ugón] 989—ab
anomalies, free fibrous cord passing through, [Goforth] *1612
anoxemia and, [Resnik] 377—ab
athletics and, [Meyer] 1322—ab; [Kauf] 1326 —ab; [Damez & others] *1420
auricle (left) thrombosis, diagnosis, [Aubertin & Rimé] 988—ab
auricles, vs. anoxemia, [Resnik] 377—ab
Auricular Fibrillation: See Auricular Fibrillation
beat vs. drugs intravenously, [Wilson] 1861 —ab
block, Adams-Stokes disease with syncopal attacks, [Levine & Matton] 1738—ab; [Levine] 1793—ab
block, bundle branch, after-history, [Cowan & Bramwell] 911—ab
block, complete, [Smith] 228—ab
block, electrocardiography, [Lian & Petit] 1587—ab
block, functional, in trained athlete, [Meyer] 1322—ab
block, nervous control in, [De Graff & Weiss] 1580—ab
block, pathogenesis of Adams-Stokes syndrome, [Géraudel] 585—ab
block, rheumatic, cardiac complications, [Sutherland] 1397—ab
block, rheumatic, epinephrine in, [Sutherland] 1397—ab
block, sino-auricular, [Resnik] 979—ab
block, traumatic origin, 510—MI
block, ventricular rate in Stokes-Adams disease, [Herapath] 1586—ab
blood pressure in, [Bard] 655—ab
cancer, secondary, [Kapsinow] 1244—ab
changes, myopathy with, 1303
cod liver oil and, [Agduhr] 1492—ab
conductive system, sino-auricular, [Rothberger & Scherf] 237—ab
decompensated, venesection for, [Gordon] 67 —ab
diagnosis, electrical auscultation for, 133
dilatation and hypertrophy, 38—E
Disease: See also Cardiovascular Disease
disease and life, [Roberts] 1244—ab
disease and thyroid tumors, [Arnelli] 1799 —ab
disease; cardiac epilepsy, [Abascal & Cerviño] 1102—ab
disease, casein a diuretic, [Jarotzky] 1489—ab
disease, chronic, etiology, [Fahr] 907—ab
disease, chronic valvular, prognosis, [Smith] 649—ab
disease in children, [McCrudden] *535
disease in children, intradermal salt solution test in, [Olmstead] 1481—ab
disease in New England, [White & Jones] 1792—ab
disease in Veterans' Bureau hospitals, [Matz] 1583—ab
disease, organic, basal metabolism in, [Lev & Harburger] 650—ab
disease, preclinical stage, [Smith] *1902
disease, prevention by health education, [Townsend] 1867—ab
disease, rheumatic, electrocardiograms in, [Bain & Hamilton] 1803—ab
disease, rheumatic, sinus respiratory arrhythmia in, [McCrudden] *535
disease, spinal fluid lymphocytosis in, [Alvarez & Fracassi] 383—ab
disease, treating, in tuberculosis sanatorium, [Howk] 1161—ab
disease, vital capacity in, [Caussade & others] 1871—ab
disorders in experimental diphtheria, [Lutembacher] 516—ab
disorders, multiple, in acute articular rheumatism, [Doumer] 1322—ab
Displacement: See also Heart, transposition
displacement, 432
edema, Novasurol to produce diuresis in, [Lamble] 916—ab
effect of athletics on, [Meyer] 1322—ab; [Kauf] 1326—ab; [Damez & others] *1420
effect of drugs on, acetanilid, [Young & Wilson] 1725—ab

HEART—Continued
effect of drugs on, epinephrine, [Petzetakis] 914—ab
effect of drugs on, quinidine, etc., [Wilson] 1861—ab
efficiency of, 163—ab
electrical auscultation in diagnosis, 133
electrocardiogram, auricular wave of, [Alexander & others] 148—ab
electrocardiogram, improvement of, 1362
electrocardiogram in diabetes, [Blitzsten & Schram] 979—ab
electrocardiogram in myxedema, [Thacher & White] 1159—ab
electrocardiogram of new-born, [Doxiades] 1490—ab
electrocardiogram, vs. anesthetics, [Henrijean & Waucomont] 585—ab
electrocardiogram vs. myocarditis, [Master & Pardee] 1160—ab
electrocardiograms; dextrocardia, [Colvin] 852—ab
electrocardiograms in rheumatic carditis, [Bain & Hamilton] 1803—ab
electrocardiography, [Schellong] 1736—ab
electrocardiography of recurring syncope, [Lian & Petit] 1587—ab
electrocardiography, position of heart for, [Meek & Wilson] 148—ab
electrocardiography, value, [Price] 723—ab
en cuirasse, [Schlesinger] 657—ab
epilepsy vs., [Abascal & Cervino] 1102—ab
function test, [Henderson] 515—ab, 584—ab
functioning vs. blood viscosity, [Da-Riu] 2005—ab
hormone, [Haberlandt] 79—ab; 1876—ab
hypertrophy and dilatation, 38—E
hypertrophy, congenital, [Scott & Zeller] 977—ab
hypertrophy, enormous, [Kessler] *32
hypertrophy in chronic nephritis, [Bonchut & Ravault] 914—ab
hypertrophy in infants, [Mouriquand & others] 1663—ab
hypertrophy, vs. circulatory system, [Holman & Beck] 227—ab
in epidemic encephalitis, [Hanneman] 1326—ab
in exophthalmic goiter, [Bickel & Frommel] 1666—ab
in mercuric chloride poisoning, 1289—E
index in pulmonary tuberculosis, [Horwitz & Dunham] 228—ab
infarct and coronary sclerosis, [Werley] 229—ab
infarction, [Christian] 513—ab
injections into, epinephrine, [Petzetakis] 914—ab
injections into, epinephrine, in resuscitating new-born, [Garipuy & Mériel] 1101—ab; 1227; [Wachenfeldt] 1255—ab
injections into, in Adams-Stokes disease, [Levine & Matton] 1728—ab
insufficiency, digitalis in, [Pardee] 1582—ab
insufficiency, pulsation in peripheral veins in, [Kerr & Warren] 148—ab
insufficiency, with normal rhythm, [Parkinson & Clark-Kennedy] 985—ab
insufficiency, with spasmodic cough, [Wertheimer] 385—ab
massage, recovery after, [Ball] 1869—ab
mental disease and, [van Ller] 660—ab
murmur, Flint's sign and aortic disease, [Stanojević & Vančura] 79—ab
Muscle: See also Myocarditis
muscle after carbon monoxide, [Gürich] 455—ab
muscle disease, jaundice in, [Keefer & Resnik] 1941—ab
muscle disease vs. electrocardiogram, [Master & Pardee] 1160—ab
muscle necrosis, ischemic, [Gibson] 516—ab
muscle necrosis with cerebral embolism, [Klionsky] 807—ab
necrosis, [Gibson] 516—ab; [Coombs & Hadfield] 723—ab; [Klionsky 807—ab; [Bulmer & Lamb] 1870—ab
pain, [Baird] 1867—ab
pain, paravertebral alcohol block for, [Swetlow & Schwartz] *1679
repaired heart; behavior in bronchopneumonia, [Fisher] *192
rhythm, auriculoventricular, [Danielopolu & Proca] 2004—ab
rhythm, causes of, [Henrijean] 655—ab
rhythm, intracardiac pressure, [Bard] 655—ab
rhythm, normal, in heart failure, [Parkinson & Clark-Kennedy] 985—ab
roentgen study, using lodized oil, [Rouslacroix] 808—ab
roentgenotherapy and, [Emery & Gordon] 579—ab
rupture, spontaneous, [Krumbhaar & Crowell] 579—ab; [Nuzum & Hagen] 1578—ab
sarcoma, spindle cell, [Beck & Thatcher] 978—ab
sensibility of, [Waugh] 231—ab
size, vs. effort, [Gordon] 304—ab
sounds in rheumatism, [Mavor] 1662—ab
sounds, normal, [Steinberg] 659—ab
surgery in mitral stenosis, [Cutler] 905—ab
sympathectomy effect on, [Jonnesco & Ionesco] 517—ab
thrombosis, [Torres] 1951—ab

HEART—Continued
Transposition: See also Heart, displacement; Viscera, transposition
transposition, electrocardiogram [Colvin] 652—ab
tuberculosis, [Stefko] 991—ab
Valves: See also Aortic Valve; Mitral Valve
valves, surgery, [Dmitrieff] 1737—ab
valvular cases, analysis, [Perla] 1396—ab
valvular disease, prognosis, [Smith] 649—ab
ventricular premature contractions vs. digitalis, [Otto & Gold] 1863—ab
wounds, cardiorrhaphy, [Long] 512—ab
HEAT action of hemolytic power of blood, [Weil & Stieffel] 987—ab
action on infants, [Demuth & others] 1877—ab
canned, 893
production on diets lacking vitamin B, [Farmer & Redenbaugh] 511—ab
skin reactions to, [Hawkins & Clark] 981—ab
Therapy: See Diathermy; Thermotherapy
HEBEPHRENIA: See Dementia Praecox
HEGER, PAUL, death of, 499
HEIGHT, increasing, 803
HELIOTHERAPY: See also Phototherapy; Rickets, treatment; Sunlight; Ultraviolet Rays
[Hawes] 1161—ab
at low altitudes, [Freiberg] *731
HELMINTH fauna in bird, [Skrjabin] 1731—ab
HELMINTHOPHORIA, [Gram] 1176—ab
HEMAGGLUTINATION: See Agglutination
HEMANGIOMA, cavernous, of bladder, [Katz] 1248—ab
HEMATEMESIS: See Stomach hemorrhage
HEMATOMA of rectus abdominis muscle, [Hall] 367—C
HEMATOMYELIA: See under Spinal Cord
HEMATURIA, [Elsendrath] *825; [Baehr] *1001
in new-born, [Dale] 1947—ab
HEMERALOPIA from ascariasis, [Harigopal] 1870—ab
HEMIANOPIA, optic radiation, [Cords] 78—ab
HEMIPLEGIA during therapeutic pneumothorax, [Castex & Romano] 383—ab
HEMOCHROMATOSIS, [Hartman] 981—ab
copper poisoning causes, [Mallory] 1654—ab
HEMOCHROMOGEN crystal test for blood, [Kerr & Mason] 984—ab
HEMOCLASTIC CRISIS digestion, and vagotonia, [Widal & Abram] 516—ab
HEMOGENIA, fatal menorrhagia in, [Payan] 1252—ab
hemogenia-hemophilia, treatment, [Merklen & Wolf] 74—ab
roentgen rays effect on, [Goia] 1871—ab
HEMOGLOBIN: See also Erythrocytes
bile pigment formed from, [Mann & others] 1938—ab; 1985—E
circulation and, [Liljestrand & Stenström] 456—ab
methemoglobin and spleen, [Frey] 454—ab
methemoglobin susceptibility to reducing agents, [Nicloux & Roche] 988—ab
muscle hemoglobin, 1986—E
oxyhemoglobin, peroxidase function, [Bakh & Kultugin] 1104—ab
oxyhemoglobin susceptibility to reducing agents, [Nicloux & Roche] 988—ab
precipitins, [Ishikawa & Sakurabayashi] 1168—ab
resistance in infants, [Bischoff] 657—ab; [Bischoff & Schulte] 1876—ab
HEMOGLOBINURIA: See also Blackwater fever
blood hemolytic property in, [Weil & Stieffel] 450—ab
in acetic acid poisoning, [Sklodowski] 156—ab
in arsphenamine-bismuth treatment, [Munter & Steinitz] 1255—ab
paroxysmal, in syphilis, [Traub] 305—ab
HEMOLYSIS and amino-acids, [Loeper & others] 1685—ab
hemolytic constitution, 1553—E
reversion, [Starlinger] 588—ab
tests with rabbit serum, [Flu] 318—ab
HEMOPHILIA: See also Pseudohemophilia
[Feissly] 158—ab; [Colmand] 1489—ab
blood groups in, [Kubányi] 1490—ab
grave, with jaundice, [Weil & Stieffel] 987—ab
hemophilia-hemogenia, treatment, [Merklen & Wolf] 74—ab
hemorrhagic diathesis, [Leschke & Wittkower] 1256—ab
hemorrhagic diathesis in liver disease, [Smotroff] 1954—ab
in dental surgery, [Park] 230—ab
treatment, [Samson-Himmelstjerna] 2006—ab
HEMOPTYSIS, artificial, lung changes after, [Aurnhammer & Willis] 1794—ab
HEMORRHAGE: See also Hemophilia; Purpura hemorrhagica; Stomach, hemorrhage; Uterus, hemorrhage; etc.
capillary pressure and, [Frontali] 916—ab
cutaneous, Rumpel-Leede phenomenon, [Stephen] 589—ab
effect on blood, [Kerr] 1866—ab
experimental visceral, [Manville & others] 1902—ab
Intraperitoneal: See Peritoneum, hemorrhage
reaction of infusion fluid, [Endres] 1103—ab
sodium citrate as hemostatic, [Sison & Ignacio] 1318—ab

HEMORRHOIDS, removal, [Buie] 581—ab
treatment, digitalis suppositories, [Semler] 77—ab
treatment, quinine-urea injection, [Sodré] 235—ab
HEMOTHERAPY, autohemotherapy in asthma, [Carranza & Orgaz] 1253—ab
autohemotherapy, in mumps, [Coutts & Vicuña] 1951—ab
autohemotherapy in postoperative bronchitis, [Graser] 79—ab; [Rieder] 919—ab
autohemotherapy, local, of mastitis, [Rubeska] 1104—ab
in erysipelas [Pines] 312—ab; [Deacon] 910—ab
HEPATOLENTICULAR DEGENERATION, [Barner & Hurst] 72—ab, 1944—ab
occupational injury and, [Löwy] 729—ab
pathogenesis, [Mahaim] 1324—ab
HEREDITY: See also under names of diseases as Cancer, Tuberculosis
family of squinters, [Rodin] *1613
in cancer and other diseases, [Slye] *1599
in Dupuytren's contraction, [Apert] 380—ab
inheritance of memory, 1465
inheritance of peroneal atrophy, [Macklin & Bowman] *613
obesity and, 554—E
pathology of gene, [Bauer] 587—ab
problems of, 1085
radius dislocation and other anomalies in 4 generations, [Trauner & Rieger] 520—ab
scapular types and, [Graves] 584—ab
tumor susceptibility and, [Lynch] 982—ab, 1806—ab
d'HERELLE PHENOMENA: See Bacteriophage
HERMAPHRODISM, external feminine, [Bell] 650—ab
HERNIA, diaphragmatic, in new-born, [Ubaldo Fernández] 235—ab
femoral, operation for, [Crissey] 652—ab
in broad ligament, [Dunn] 1660—ab
industrial accidents and, [Ribeiro] 1102—ab
industrial, roentgenography, [Beifield & Rolnick] *1832
inguinal, multiple sacs in, [McQueeney] 1096—ab
inguinal, paralytic ileus after local anesthesia for, 1152
inguinoscrotal, [Spurr] 454—ab
intra-abdominal, [Elston] 1940—ab
Juxtavesical, incarcerated, [Kudrnáč] 729—ab
mediastinal, complicates pneumothorax, [Bernard & others] 1948—ab
right duodenal, [Brown] 152—ab
strangulated, and intestinal viability, [Beller & Colp] 1799—ab
treatment by artificial sphincter, [Hans] 236—ab
treatment, experimental, [Chessin] 1491—ab
treatment, rectus transplantation in, [Nuttall] 984—ab
umbilical, incarcerated, 220
umbilical, liver prolapse in, [Vogeler] 1669—ab
umbilical, skin sensibility in, [Stahnke] 1875—ab
umbilical, surgery for, [Stone] 1317—ab
vaginal, [Miles] 1943—ab
HERNIOTOMY, double, incision for, [Morrison] 1586—ab
blunders, [Stich] 1810—ab
fascia grafts in, [Koontz] 2001—ab
iliohypogastric nerve and, [Andrews] 1096—ab
in infants, [Fullerton] 1166—ab
muscle and fascia suture in, [Koontz] 1164—ab
HEROIN, administration, precautions, 1226
HERPES and chickenpox, [Netter & Urbain] 1322—ab
encephalitis and, [Remlinger & Bailly] 451—ab, 987—ab; [Pette] 1876—ab
experimental, from vaccines, [Naegeli] 726—ab
menstrual, [Blum] 1492—ab
question, [Minami & Ehara] 1490—ab
studies in, [Rezek] 810—ab
virus, [Heymann] 1589—ab
virus contaminates digestive tract, [Remlinger & Bailly] 987—ab
zoster, epidemic, [Tichý] 159—ab
zoster, etiology, [Cole & Kuttner] 981—ab
zoster in spontaneous subarachnoid hemorrhage, [Adle] 911—ab
zoster oticus, [Guthrie] 1663—ab
zoster, red light treatment, [Jacobson] 805—ab; (correction) 1483—ab
HERZFELD, KARL AUGUST, death of, 703
HEXAMETHYLENAMIN: See Methenamine
HEXYLRESORCINOL, [Leonard & Frobisher] 982—ab; [Helmholz & Field] 1942—ab
in pyelitis, [Scott & Leonard] 1243—ab; [McCurry] 1866—ab
in urinary tract infection, [Brown] *668; [Wynne] 1726—ab
prescription for, 1234
HIBERNATION, 363
HICCUP vs. spinal cord lesions, [Langeron & others] 1872—ab
HILTON LABORATORIE, 643—P
HILTON'S VITAMINES, 643—P
HIP JOINT, congenital dislocation, etiology and prevention, [Krukenberg] 1590—ab
congenital dislocation, [Putti] 1943—ab
congenital dislocation, reduction, paralysis after, [Velo] 1403—ab

HIP JOINT—Continued
contracture, [Staniscbeff] 1875—ab
coxa vara, epiphyseal, in adolescence, [Key] 806—ab
coxa vara, etiology, [Noble & Hauser] 1317—ab
coxa vara, osteotomy for, [Losio] 915—ab
deformity, molding callus to correct, [Abbott & Hostes] 1164—ab
disarticulation, [Perpiñá & Sarasola] 1807—ab
disease, [Delitala] 1403—ab
dislocation, Shenton's line, [Renner] 385—ab
infectious arthritis in children, [Cooperman] 1243—ab
paralysis, [Colonna] 2002—ab
tuberculosis, 331—ab
tuberculosis, bone implant bridge for, [Robertson Lavalle] 916—ab
tuberculosis in children, [Magg] 455—ab
HIP REST, modified, [Telson] *1347
HIPPOCRATES, importance of massage, 895—ab
visit to Democritus, [Van Gils] 1592—ab
HIRSCHSPRUNG'S DISEASE: See Colon, megacolon
HIRSHBERG, LEONARD K., 502—P
HIRUDINIASIS of male urethra, [Mitra] 1249—ab
HISTOLOGY, institute for, Prague 1711
HODGKIN'S DISEASE: See Lymphogranulomatosis
HOFFMAN'S NON-NUTRITIVE NUT FLOUR, 842
HOME BREW: See Moonshine
HONEY in infant feeding, [Comby] 986—ab
HONL, IVAN, anniversary of, 1711
"HOOCH," "home brew" and copper, 1552—E
HOOKWORM DISEASE: See Uncinariasis
HORMONES: See also Endocrine Glands; Glandular Therapy; and under names of organs as Corpus Luteum; Ovary; Parathyroid; Pituitary Body
action, phases of, [Keogan & others] 1173—ab
effect on infusoria, [Lwoff] 655—ab
in blood, [Frank & Goldberger] *1686; [Loewe & others] 1875—ab
in blood, Bock's test, [Heyer] 237—ab; [Schubert] 520—ab; [Berek] 810—ab
inducing estrus, [Laqueur & others] 727—ab
of external pancreatic secretion and humoral mechanism, 1698—E
of heart action, [Haberlandt] 79—ab; 1876—ab
Sex: See under Sex
vitamins and, [Wolfer] 1590—ab
HOROVITZ BIOCHEMIC LABORATORIES COMPANY, Gonolin-Luesan, 972
HORTON, R. B., protecting public in Missouri, 1915—E
HOSPITALS, annual congress on, 203; 281—E; 629; 694; 756; 875; 956; 1077; 1135; 1218
"alien seamen", hospitalization of, 1935—MI
approved for internships, *1056
bed capacity vs. constant use, *1015
Boat: See Hospital, ship
charitable, indemnity insurance as evidence, 1312—MI
charitable, liability, indemnity insurance as affecting, 1312—MI
charitable, liability, reasons for exemption, 509—MI
charitable, liability of roentgenologist, 1158—MI
charitable, taxation of nurses home, 1575—MI
clinic in medical education, [Wilson] 1218—ab
closed, South China, American, 1300
County: See also Hospitals, rural
county, *1011
Doai Memorial hospitals and Red Cross, Japan, 498
enlargement, Salaberry Hospital, Buenos Aires, 1638
escape of patient, liability, 63—MI; 299—MI
extension in Berlin, 568
facilities and surgical tuberculosis, 557—E
history, first one in Mexico, [León] 1489—ab
history, Philadelphia's oldest hospital, 1140
hospitalization and tuberculosis, 1465
in State of S. Paulo, [Terra] 519—ab
individual vs. group responsibility for care of patient, [Christian] *993; [Auchincloss] *995; [Goldwater] 1218—ab
Interns: See Interns; Internships
maintained by national, state and local governments, 1674—E
maritime hospice at Rome, 212
military hospital reserve, England, 963
municipal, gross neglect, liability, 1242—MI
National Hospital Day, 1371
necropsies in, percentage, vs. number of deaths, [Christian] *1500, (correction) 1921; [Keller & others] 1785—C
nursery, impetigo in, 572
physical therapy department, Beekman Street Hospital, [Titus] *261
physician's action against, for roentgen-ray injury, 1560
private, liability for malpractice, 1719—MI
providing approved residencies and courses in certain specialties, *1063
psychiatric, capacity of, in U. S., *1010
psychiatric, dysentery in, [Hilliard] 584—ab
psychiatric, Japan, 1564
Queen Elizabeth Foundation, Belgium, 1639
records, admissibility in evidence, 372—MI

HOSPITALS—Continued
Royal hospitals; spital sermon, England, 1781
Rural: See also Hospitals, county
rural, Commonwealth Fund to construct, 635
rural, Department of Agriculture surveys, 427
selecting hospital for an internship, [Christian *1499; 1930—C
service in U. S., 5th presentation of data by Council on Medical Education and Hospitals, *1009; 1073—E
ship on Congo, 499; 799
ship on the Yukon, 1079
state aid for patients, Germany, 1639
state, rehabilitating, progress in, New York, 1776
strike at Canton Hospital, 1706
superintendents, physicians, nurses and others as, *1013
threatened curtailments in, Vienna, 363
tuberculosis, *1011
tuberculosis (surgical) and hospital facilities, 557—E
union hospital, Tokyo 1564
HOUSING conditions in Prussia, 705
shortage in Prague, 704
HOUSSAY, B. A., assaulted by students, Buenos Aires, 1637
HOXEY, HARRY M., 55—P
HOXIDE CANCER "CURE" 55—P
HOYT, A. W., 1470—P
HUMERUS dislocation: See Shoulder dislocation
HUNGER: See also Fasting; Starvation
contractions, study of, [Rogers & Martin] 1938—ab
fames canina, [Schrijver] 1955—ab
HUNTER, JOHN IRVINE, memorial fund, 47
HUNTER, L. M., Epilepsy Cure, 1928—P
HYDATED CYST: See Echinococcosis
HYDRAMNIOS: See Amniotic Fluid
HYDRARTHROSIS, intermittent, [Schlesinger] 728—ab
HYDROCELE in infants, [Gallo] 452—ab
bilateral, [Woodruff] 1942—ab
trues, 803
tunica vaginalis as test object in, [Lanz] 1875—ab
workmen's compensation and, [Scheele] 2005—ab
HYDROCEPHALUS, 430
breech presentation of child with, [Platte] 1592—ab
drainage of ventricles for, [Vána] 729—ab
HYDROGEN ION CONCENTRATION: See also Blood; Cerebrospinal Fluid; Feces; etc.
disinfection and, [Keysser & Ornstein] 1589—ab
effect on anthrax bacillus, 1145
HYDRONEPHROSIS, experimental, [Hinman & Helper] 718—ab; 1798—ab
traumatic, [Cornioley] 1733—ab
HYDROPHOBIA: See Rabies
HYDROPNEUMOTHORAX, spirochete in sputum in, [Ribierre & Kermorgant] 655—ab
di-HYDROXYACETONE effect on blood sugar and glycosuria, [Mason] 2002—ab
HYGIENE: See also Health; Sanitation
course in, by Italian Red Cross, 1146
course in, Rome, 1637
Dental: See Teeth
institute, Prague, 133
instruction of masses in, 566
Japanese representative to International Hygienic Conference, 1923
specialists, training in Uruguay, 1560
HYMOSA, 220
HYPERALGESIA, pupils in somatic and visceral disease, [Byrne] 1247—ab
HYPEREMESIS gravidarum: See Pregnancy, vomiting of
HYPEREMIA, therapeutic, [Taylor & Rice] *191
therapeutic, vs. median nerve lesions, [Crile] 1659—ab
HYPERGLYCEMIA: See Blood, sugar
HYPERNEPHROMA of thyroid, [Kolodny] 717—ab
metastases after surgery, [Rehn] 729—ab
or nephritis? [Stutzin] 159—ab
HYPERPYREXIA: See Fever
HYPERTENSION: See Blood Pressure, high
HYPERTHYROIDISM: See also Goiter; Thyroid
castration and, [Khoór] 1175—ab
compensatory, [Loeb] 1479—ab
diabetes mellitus and, [Dyas] 373—ab; [Wilder] 2000—ab
etiology, iodized salt, [Hartsock] *1334
in children, [Dinsmore] 1164—ab
lipodystrophy and, [Marañon & Soler] 1656—ab
postoperative toxemia, [Rogers] 1944—ab
recurrent, [Lahey & Clute] 1245—ab
reflex in, [Serejski] 1598—ab
roentgenotherapy in, [Barclay] 653—ab; [Barclay & Fellows] 1485—ab
surgical mortality in, 1230
treatment, insulin, [Castex & others] 726—ab
treatment, iodine, [Thomas & Rienhoff] 1319—ab; 1715
treatment, thyroidectomy, [Elliot] 1937—ab
HYPNOSIS: See Suggestion
HYPNOTICS, ethylisopropylbarbituric acid, [Jackson & Lurie] 150—ab
of barbituric acid series, [Nielsen & others] 307—ab

HYPODERMIC: See also Injections
medication, inapt compounding, liability of maker, 900—MI
HYPOGLYCEMIA: See Blood, sugar
HYPOPHYSITIS: See Pituitary Body
HYPOPITUITARISM: See Pituitary Body
HYPOTHYROIDISM, anemia in, [Mackenzie] *462
constipation from, [Oswald] 1837—ab; [Brown] 1937—ab
HYSTERECTOMY: See Uterus excision
HYSTEREESIS, in infants, [Svehla & Saitz] 522—ab
HYSTERIA, 468—ab
convulsions, [Rouquier & Vuillaume] 988—ab
HYSTEROTOMY: See Uterus surgery

I

ICE CREAM, typhoid bacillus in, viability, [Prucha & Brannon] 981—ab
ICEBAG, device for suspending, [Lindsey] *748
ICHTHYOSIS, congenital, and colloidal skin, [Klingery] 716—ab
ICTERUS: See Jaundice
Index: See Blood, bilirubin
IDIOCY, amaurotic familial, [Schaffer] 446—ab
amaurotic familial, juvenile, [Moehlig] 228—ab
Mongolian, [Vas] 589—ab
Mongolian, in twins, [Dietrich & Berkley] 1865—ab
IDOZAN not acceptable for N. N. R., 1233—P
ILEUM, atresia, multiple, [Erb] 1797—ab
ILEUS: See under Intestines
ILLINOIS, convicted director of education now seeks higher office, 1135—E
IMMIGRANTS admitted to study chiropractic, 700
hospitalization of "alien seamen," 1935—MI
IMMUNITY, dysimmunity, [Much] 1491—ab
anaphylaxis and, [Manwaring & others] *1271
in experimental tuberculosis, [Boquet & Nègre] 986—ab
local, vs. lymph glands, [Goldenberg & Panisset] 912—ab
natural, variations in predisposition, [Hamburger] 377—ab
pneumococcus, [Gutfeld & Nassau] 1953—ab
reaction of cells and phagocytosis, [Metalnikov & Toumanoff] 1—ab
IMMUNIZATION: See also under of diseases as Diphtheria; Scarlet Fever; etc.
colloidal metals and, [Pacheco] 1734—ab
emigration and local insurance, England, 1301
indirect, [Dujardin & Decamps] 233—ab
intradermal, and Dick test, [Zoeller] 914—ab
peroral and percutaneous, [Reiter & Kurokawa] 1953—ab
IMMUNOTRANSFUSION for septicemia, [Lloyd & Schlesinger] 1398—ab
IMPETIGO contagiosa neonatorum, etiology, [Belding] 978—ab
in hospital nursery, 572
IMPLANTS: See under Bone; Transplant; etc.
IMPOTENCE of workmen, 1924
INCOME TAX: See Taxation, income
INCOMPATIBILITIES in medication, [Fantus] *1625
INCUNABULA, 800
INDEPENDENCE DAY: See Fourth of July
INDIA, new medical school in, 761
native Indian allegedly antidotes for snake venoms, [Raimundo] 1101—ab
INDIANS, AMERICAN, goiter among, [Rush & Jones] 69—ab
Indian Medical Service, reorganization, 1224
trachoma among, delegation to study, 1371
trachoma problem among, 358; [Fox] *404, 970—C
INDIGESTION: See Dyspepsia
INDUSTRIAL accidents and amyostatic syndrome, [Löwy] 729—ab
accidents and fatal disasters in Prussia, 133
accidents and hernia, [Ribeiro] 1102—ab
accidents in coal mines, 962; 1633
accidents in metal mines, 690
accidents, iron and steel, 142
accidents, occupational injuries of eyes, [Elschnig] 316—ab
accidents, pneumatic rupture of sigmoid, [Block & Weissman] *1597
accidents, statistics, Italy, 1994
accidents vs. disease, 213
dermatitis, 437
dermatitis from gasoline and naphtha, prevention, 1643
dermatitis from jute, 1772—E
dermatitis from back-sizing for rugs, 1996
dermatitis from wood turpentine, [McCord] *1979
diseases, anthrax, 874—E
diseases, bursa on tibia, [Eccles] 1249—ab
diseases, cancer, 798; 963; 1229, [Meyer] 1307—C; 1780
diseases, copper itch, 971
diseases, diagnosis and domain, 213
diseases, hernia, [Ribeiro] 1102—ab
diseases, hernia, roentgenography, [Belfield & Rolnick] *1832
diseases, hydrocele, [Scheele] 2005—ab
diseases, Malaria, 290
diseases, new law on, Belgium, 1638
diseases of women and children, 291
diseases, tuberculosis, [Braeuning] 159—ab
diseases, tuberculosis in bakers, 362
diseases, tuberculosis in tobacco workers, [Müller & Berghaus] 1257—ab

INDUSTRIAL—Continued
diseases, tuberculosis mortality among Ruhr miners, 1087
diseases vs. accident insurance, Germany, 1639
diseases vs. health insurance, 291
hygiene, course in, Italy, 1904
International Congress on Industrial Accidents and Occupational Diseases, fourth, 213; 290
medicine, congress on, Genoa, 1637
medicine, graduate course in, University of Naples, 1147
poisoning, 214
poisoning from benzene causes jaw necrosis, [Lowy] 1667—ab
poisoning from coal tar paints, [Kidston] 1400—ab
poisoning from lead, prophylaxis, [McKail] 1162—ab
poisoning from low concentrations of chlorine gas, [McCord] *1687
sanitation, 966
sanitation in mining towns, Alabama, 1555
wastes causes stream pollution, 761
INFANTILISM, Intestinal: See Celiac Disease
INFANTS: See also Children; Infants, New-Born; and under names of diseases as Diabetes Mellitus in infants, Syphilis in infants; etc.
blood platelet count in, [Rol] 1805—ab
breast-fed, diarrhea in, treatment, [Bytsch] 1101—ab
breast fed, dyspepsia in [Toverud] 238—ab
breast-fed, injury from lack of water in, [Hirsch] 1407—ab
breast-fed, intestinal flora of, [Kendall & others] 1580—ab
breast-fed, lead poisoning in, from nipple shields, [Wilcox & Caffey] *1514
breast-feeding demonstration, Massachusetts, 1221
development, normal, comparative method for demonstration, [Gesell] *1277
feeding, 1091
feeding, acidified milk in, [Johnson] 652—ab; 1696—E
feeding, artificial, intestinal flora under, [Kendall & others] 1580—ab
feeding, breast feeding demonstration, Massachusetts, 1221
feeding, cream soup, 437
feeding, dried human milk, [Emerson] 445—ab; [Emerson & Smith] 977—ab
feeding, honey in, [Comby] 986—ab
feeding, mixed, intestinal flora under, [Dreyfus] 987—ab
fever in, [Reiche] 1877—ab
heart hypertrophy in, [Mouriquand & others] 1663—ab
heat effect on, [Demuth & others] 1877—ab
hernia in, incarcerated, 220
hernlotomy in, [Fullerton] 1166—ab
intestinal flora of artificial vs. breast fed, [Dreyfus] 987—ab; [Kendall & others] 1580—ab
malnourished, insulin in, [Tezner & Ebel] 728—ab
Mortality: See also Vital Statistics
mortality, in Massachusetts, [Coffin & others] *408
mortality, in Prussia, 800
mortality, in Tokyo, 1924
premature, [Lyon] 656—ab
reaction time in, [Peiper] 1255—ab
stomach, [Rotz] 314—ab
vomiting in, [Gareliy] 1950—ab
weight curves, [Stoeltzner] 990—ab
welfare, course in, Rome, 1637
welfare, in Russia, [Dworetzky] 1668—ab
INFANTS, NEW-BORN, albuminuria of, [Faerber] 1173—ab
Asphyxia: See Asphyxia neonatorum
basophils of, [Freidlander & Wiedemer] 445—ab
biology of, [Hellmuth 1325—ab
blood coagulation in, vs. gas anesthetics used in labor, [Sanford] *265
blood groups in mother and, [Cathala & Le Rasle] 234—ab; [Ohnesorge] 385—ab; [Du Bouchet] 1252—ab; [Hirzfeld & Zborowski] 1402—ab; 1953—ab; [Allen] 1656—ab
blood transfusion in, [Guenlot] 1486—ab
blood transfusion in, vs. hemagglutination, 1235
diet in pregnancy and, [Mellanby] 1584—ab
electro-cardiogram, [Doxiades] 1490—ab
hematuria in, [Dale] 1947—ab
hemorrhage in, gastro-intestinal, 1563
hernia in, diaphragmatic, [Ubaldo Fernández] 235—ab
Injuries: See also Paralysis, obstetric
injuries of brain, [Dollinger] 1877—ab
injuries of phrenic nerve, [Friedman & Camberlain] *934
injuries, spinal cord lesions from breech delivery, [Ford] 446—ab
insulin action in, [Vogt] 159—ab
intracranial hemorrhage, [Sharpe & Maclaire] *332; [Ott] 1867—ab
Jaundice of: See Jaundice
otitis media in, [Drury] 905—ab
pneumococcus infection, [Garrahan & Bettinotti] 989—ab
pneumonia in, diagnostic sign, [Hatai] 1663—ab
Resuscitation: See also Asphyxia neonatorum
INFANTS, NEW-BORN—Continued
resuscitation of apparently stillborn, [Wachenfeldt] 1255—ab
rights of, [De Buys] 229—ab
sequels of eclampsia in mothers, [Bund] 385—ab
vaccination against tuberculosis, [Calmette & others] 1252—ab, 1322—ab
vaginal reaction in, [Kienlin] 1669—ab
INFECTION: See also Furunculosis; Pneumococcus, infection; Streptococcus infection; etc.
auto-infection from vaginal secretion, 1464
bacterial, chemotherapy of, [Walker & Sweeney] 907—ab
fatigue and, 753—E; [Boycott & Price-Jones] 1099—ab
Focal: See also Teeth, infected; Tonsil, infected
focal, causes eczema, [Fisher] 67—ab
focal, causes paroxysmal tachycardia, [Major & Wahl] *1125
focal, effect on mind, [Watson-Williams] 722—ab
focal, in hemorrhagic nephritis, [Baehr] *1001
focal, remote results, [Marriott] 1583—ab
focal, tragedies of tooth extraction, [Blumer] 1161—ab
focal, typhoid, [Landau & Fejgin] 1160—ab
focal, vs. prostate, [Walther] 1163—ab
in gastric and duodenal ulcer, [Duval & others] 1685—ab
resistance to, vs. physical condition, [Spaeth] 147—ab
surgical, treatment, [Krecke] 1591—ab
tissue modification and, [Finkelstein] 1668—ab
treatment, acriflavine, [Tenney & Lintz] 1654—ab
treatment, fixation abscess in, [Jacob & Wendt] 1407—ab
INFECTIOUS DISEASES: See also Immunity; Immunization; Measles; Scarlet Fever; Syphilis; etc.
classification, [Bezançon & Phillibert] 914—ab
desensitization in, [Di Cristina] 1666—ab
frontier sanitary service, Switzerland, 289
in West Africa, 256—ab
procaine-formaldehyde test (Costa) in, [Tron] 915—ab
serum flocculation in, [Georgesco] 987—ab
statistics for 1924, U. S., 126
statistics, Switzerland, 289
treatment, autogenous vaccines, [Stahl & Nagell] 384—ab
treatment, glucose injections, [Latzel] 237—ab
treatment, mercurochrome, [Young & others] 1724—ab
INFLUENZA Bacillus: See Bacillus, Pfeiffer
complications, unusual, [Marques] 235—ab
in Austria, 1850
in England, 1707
in U. S. army, 1683
intestinal, and B. suipestifer, [Cowern] 58—C
mortality in U. S., 881
treatment, chlorine, vs. leukocyte count, [Allen] 151—ab
vaccination causes, [Brouwer] 522—ab
INFRA-RED, eye injury from, [Vogt] 1873—ab
INFUNDIBULIN: See Pituitary Extract
INFUNDIBULUM, function, vs. pituitary, 964; 1332—ab
INFUSORIA multiplication vs. organ extracts, [Lwoff] 655—ab
INHALATION, treatment, [Fantus] *551, *623
INJECTIONS: See also Hypodermic
Intracardiac: See Heart, injections into
intracavernous, [Adler] 1809—ab
intracutaneous, [Hoff] 1256—ab
intramuscular, of insoluble bismuth compounds dangerous, [Cole & others] 1316—ab
intraspinal, of pituitary extract, hypertension after, [Leimdörfer] 659—ab
Intravenous: See also Blood Transfusion and under names of diseases
intravenous, and acacia, 556—E
intravenous, gentian violet solutions for, [Burke & Newton] *529
intravenous, of dyes, [Churchman] 802—C
intravenous, of epinephrine, [Petzetakis] 914—ab
intravenous, of sodium chloride in extensive burns, [Bigger] 1867—ab
intravenous; venoclysis, [Hendon] 1660—ab
paravertebral, for cardiac pain, [Swetlow & Schwartz] *1679
Rectal: See Enemas; Rectum, feeding by
sacral epidural, for pain in lower extremities, [Viner] 225—ab
subcutaneous, of oil, resorption, 49
treatment by, [Hirsch] 588—ab
urethral, technic, [Fantus] *1981
INJURIES: See Infants, New-Born, injuries; Trauma and under names of organ and regions
INK, printer's, causes dermatitis venenata, [Oliver] 902—ab
INNER-CLEAN, "intestinal scourer" and "aromatic herb-vegetable compound," 570—P
INNOMINATE BONE, osteomyelitis, [Painter] *341
INSANE, alien, immigrate to France, 638
Asylums: See Hospitals, psychiatric
cholesteremia in, [Ornstein] 988—ab
contractual capacity, 1575—MI
INSANE—Continued
contractual capacity, evidence of, 64—MI
evidence, self-serving declarations, 441—MI
Paralysis in: See Paralysis, General
speech defects in, [Covey] 229—ab
statistics on, Italy, 1904
testamentary capacity, criteria of, 372—MI; 1860—MI
INSANITY and crime, 360
A. M. A. resolution on expert opinion evidence, 13564
burden of proof in criminal cases, 1860—MI
criteria of, in criminal cases, 1719—MI
delinquency and, 168—ab
evidence of physician, 1860—MI; 1935—MI
focal infection and, [Watson-Williams] 722—ab
genius and, 264—ab
in Japan, 13564
manic depressive, and septic kidney, [Kilbane] 1796—ab
manic-depressive, theory of, [McDougall] 583—ab
menstruation and, [Repond] 913—ab
prevention, and mental hygiene, [Rodiet] 988—ab
puerperal, vaccinotherapy, [Lalor] 1400—ab
INSECTS; their relation to man, 714
INSOMNIA: See Sleep
INSTITUTE for Histology and Embryology, Prague, 1713
INSTRUMENTS: See also Apparatus and under names of instruments as Knife, Stethoscope; etc.
for introducing hemostatic bags in suprapubic prostatectomy, [Barry] *1437; [Swartz] *1518
for ear, nose and throat work, [Botey] 1735—ab
pillar retractor, convenient, [Haines] *1767
suturer, ever-ready, [Marbel] *1980
ureteral stone extractor and dilator, [Councill] *1907
INSULIN, acid, alkalis and enzymes effect on, [Shonle & Waldo] 1246—ab
action vs. exercise, [Lawrence] 1728—ab
complement, [Lundsgaard & Holbøll] 488—ab, 1326—ab; [Lundsgaard & others] 1812—ab
crystalline, another chemical triumph, 350—E
diabetic metabolism and, 137
effect on acid-base balance in surgical diabetic, [Gibson] *1209
Effect on Blood sugar: See Blood sugar; Diabetes Mellitus, insulin in
effect on electrolytes, [Abelin & Goldener] 454—ab
effect on experimental beriberi, [Chahovitch] 517—ab
effect on new-born, [Vogt] 159—ab
effect on vagus, [Garrelon & others] 451—ab
fractioning in children, [Friesel & Wagner] 990—ab
glycogen storage and, [Adlersberg & Porges] 1172—ab
glycolysis and coferment, [Brugsch & Horsters] 809—ab
in tumor tissue, [Cori] 71—ab
muscular fatigue and, [Karásek] 522—ab
pancreas necrosis after, [Tschernings] 158—ab
paradoxic phenomenon, [Fornet & Christensen] 1489—ab
para-insulin, formation in tuberculous, [Lundberg] 318—ab
pituitary hormone and, [Serebrijski & Vollmer] 78—ab
pituitary, water metabolism and, [Koref & Mautner] 658—ab
pregnancy glycosuria and, [Elias & others] 317—ab
preservation, [Trocello & Cruto] 985—ab; [Choay] 1402—ab
protein activation, [Bertram] 236—ab
researches on, 497
resorption and, [Koref & Mautner] 1173—ab
rôle in carbohydrate metabolism, 200—E
Treatment: See also Diabetes Mellitus
treatment, insulin plus sugar for liver insufficiency, [Jacoby] 727—ab
treatment, insulin with dextrose, [Grunenberg] 1255—ab
treatment of dystrophic infants, [Texner & Ebel] 728—ab
treatment of eclampsia, [Stander & Duncan] 650—ab
treatment of excessive vomiting and eclampsia, 557—E; [Tituta] 969—C; [King] *1417
treatment of exophthalmic goiter, [Meyer] 237—ab
treatment of hyperthyroid conditions, [Castex & others] 726—ab
treatment of infantile toxicosis, [Wagner] 1589—ab
treatment of liver diseases, [Klein] 237—ab
treatment of malnutrition, [Fischer & Rogatz] 1479—ab
treatment of obesity, [Weiler] 727—ab
treatment of recurring gastric ulcer, [Feissly] 1804—ab
treatment of spontaneous gangrene, [Stühlern & others] 78—ab
treatment of suprarenal insufficiency, [Marañon] 452—ab
treatment of ulcers, 568
treatment of varicose veins, 568
treatment, problems in, [Mallory & Roe] 1657—ab

INSULOMA, 1230
INSURANCE: See also Workmen's Compensation
accident, death from hemorrhoid treatment, 1391—MI
accident, "disease" defined, 1391—MI
accident, necropsy clause, construction, 1391—MI
accident, total and continuous disability defined, 577—MI
accident, vs. industrial diseases, Germany, 1639
certificate of physician, requirement of, reasonable, 441—MI
health, compulsory, [Kahn] 571—C
health, Czechoslovakia, 132; 967
health, federal, health measures aiding, Germany, 53
health, in Tokyo, 1924
health, national, report on, England, 1646—ME
health, societies, merger of, Netherlands, 1376
health, vs. industrial disease, 291
laboratory analysis, inspection of records of, 1934—MI
life, applicant's duty of disclosure, 300—MI
life, is universal life insurance coming? [Musgrave] 1644—ME
life, knowledge imputed to company, 300—MI
life, medical examiner, knowledge imputed to insurer, 900—MI
life, paralysis, general; liability, 300—MI
life, sound health defined, 1095—MI
of agricultural laborers, Italy, 214
public health and, 704
social, 288
social, German, achievements of, 888
social, lectures on, Prague, 1466
social, local, and emigration, England, 1301
social, vs. preventive medicine, 1466
societies run by physicians, Buenos Aires, 1085
INTELLIGENCE, distribution, Northumberland, 496
tests, 86—ab; 1309
INTERCHANGE of medical officers, 209
INTERFEREOMETRY, sources of error in, [Strecki] 79—ab
INTERNATIONAL CONGRESS OF SURGERY, 1993
INTERNAL MEDICINE, Italian society of, annual session, 51
German congress of, 1710; 1782; 1851
INTERNAL SECRETIONS: See Endocrine Glands
INTERNATIONAL CONFERENCE ON PHYSIOLOGY, Kato's departure for, 1924
INTERNATIONAL HYGIENIC CONFERENCE, Japanese representative, 1923
INTERNATIONAL MEDICAL UNION, 1562
INTERNATIONAL SANITARY CONVENTION, revision of, 1145
INTERNATIONAL SOCIETY OF MEDICAL PRACTITIONERS, proposed, 1636
INTERNATIONAL STANDARDIZATION ASSOCIATION, 1559
INTERNATIONAL STOMATOLOGICAL CONGRESS, committee for, 761
INTERNS: See also Students, Medical
checking and recording work of, *1064
externs, Argentina, 1377
supply of, by states, *1013
INTERNSHIPS as part of medical education, [various authors] 875—ab
Buenos Aires, 566
hospitals providing approved residences and courses in certain specialties, *1063
purpose of, [Irons] *936
selecting hospital for, [Christian] *1499, 1930—C
INTERSTATE POST-GRADUATE ASSEMBLY: See Post-Graduate Association of North America
INTESTINES: See also Cecum; Colon; Gastro-Intestinal Tract; Jejunum; Rectum; Sigmoid
anastomsis, [Scarff] 2001—ab
anomaly; abnormally short small intestine, [Mérola] 157—ab
Bacillus bifidus in, of infants, [Cruickshank] 654—ab
Bacillus welchii overgrowth vs. carbohydrate intolerance, [Kendall] *737
bacteria chemistry of artificially fed infants, [Kendall & others] 1580—ab
bacteria chemistry of normal adults, [Kendall & others] 1581—ab
bacteria chemistry of nursings, [Kendall & others] 1580—ab
bacteria of infants under mixed feeding, [Dreyfus] 987—ab
bacteria vs. calcium deficient diet, [Hoffstadt & Johnson] 147—ab
blood supply, [Seidowitsch] 317—ab
calcium absorption from, [Kahn & Roe] *1761
calculi; coprolith causes obstruction and perforation, [Downing] *550
cystic disease, 1230
disease, intra-intestinal thermal therapy, [de Rivas] 979—ab
disease, kaolin in, 1217—E
diseases, carbohydrate metabolism of infants with, [Tisdall & others] 445—ab
diverticula, [Spriggs & Marxer] 73—ab
diverticula, etiology, [Davies-Colley] 1166—ab
diverticulum complicating appendicitis, [Davis] *1689
INTESTINES—Continued
fats digested and absorbed in, [Binet] 724—ab
Fistula: See Fistula
foreign body, toothpick in diverticulum, [Terrell] *1689
ileus, adynamic, hypertonic saline injections in, [Ross] 1655—ab
ileus and blood sugar drop, [Kubányi] 1667—ab
ileus, choline treatment, [Wolf & Canney] 1666—ab
ileus in pregnancy, [Luchs] 1590—ab
ileus, paralytic, after local anesthesia, 1152
inflammation, chronic, from lambliasis, [Miller] 1869—ab
inflammation, from bismuth poisoning, [Fischer] 1406—ab
Inner-Clean, "intestinal scourer" and "aromatic herb-vegetable compound," 576—P
intolerance for carbohydrate with overgrowth of gas bacillus, [Kendall] *737
Invagination: See Intussusception
obstruction, and pernicious anemia, [Haden] 1396—ab
obstruction, [Butler & Delprat] 1865—ab
obstruction, belladonna in, [Pande] 1870—ab
obstruction by coprolith, [Downing] *550
obstruction by gallstones, [Bennett] 1661—ab; [Coldrey] 1870—ab
obstruction, chronic, [Lockwood] 374—ab; [Walker] 1484—ab
obstruction, experimental, irrigation and alkalosis control for, [Portis & Portis] 902—ab
obstruction, experimental, vs. jejunostomy, [Orr & Haden] 374—ab
obstruction, roentgenoscopy, [Candy] 723—ab
obstruction, sodium chloride in, [Orr & Haden] 1867—ab
occlusion, [Margarucci & Stoppato] 916—ab
occlusion from detached gastro-enterostomy loop, [Chiari] 1491—ab
Paralysis: See Paralysis, intestinal
Parasites: See also Ascariasis; Amebiasis; Endamebiasis; etc.
parasites, Increase in Austria, 702
parasites, treatment of pinworms, 1309; 1716
perforation due to coprolith, [Downing] *550
perforation of syphilitic ulcers in, [Wahlberg] 1164—ab
projecting, skin flap cover for, [Steinberg] 1096—ab
protozoan infections in Korea, [Kessel] 449—ab
protozoiasis in temperate zone, [Smithies] 979—ab
putrefaction, [Deschwanden] 158—ab
rupture from abdominal contusion, [Crook] 302—ab
secretion, and food, [Rosenbaum] 658—ab
secretion vs. pancreatectomy, [Koskowski & Ivy] 1315—ab
Stasis: See also Constipation
stasis, [Cunningham] 228—ab
stenosis, parabiliary, [Lagravinese] 915—ab
stomach secretion and, 1289—E
tonus, and amidopyrine, [Januschke & Lasch] 1490—ab
tuberculous tumor, [Bazán & Vallino] 2005—ab
ulcer, simple, [Bigger] 1868—ab
ulcer, syphilitic, [Wahlberg] 1104—ab
ureters transplanted in, [Hinman] *921
viability, and strangulated hernia, [Beller & Colp] 1799—ab
INTRACRANIAL PRESSURE in jacksonian epilepsy, [Leriche & Werthelmer] 725—ab
increased, spinal fluid escapes through nose in, [Locke] 1654—ab
magnesium sulphate effect on, [Morrissey] 718—ab
ventriculometry, [Ney] 1378—ab
INTRAVENOUS THERAPY: See Injections, intravenous; and under names of diseases
INTUBATION, [Heinonen] 1258—ab; [Fairweather] 1803—ab
INULIN, unwarranted therapeutic hopes, 1626—E
IODEIKON Capsules-Swan Myers, 1625
IODINE: See also Goiter, prevention
effect on thyroxin, [Sturgis & others] 1580—ab
hidden in drugs, [Kofler] 1809—ab
in body, [Maurer & Diez] 659—ab
iodine-alcohol preparation of external genitali for delivery, [Lankford] 1393—ab
Iodized Salt: See Salt
lowers basal metabolic rate, [Fitzgerald] 1394—ab
metabolism in puberty goiter, [Eckstein & Mommer] 659—ab
resorption by thyroid, [Eckstein & Nuelle] 659—ab
salt in cholecystography, [Saralegui] 651—ab
sources in salmon, [Jarvis & others] *1339
test of pancreatic function, [Piersol & others] 1654—ab
Treatment: See also Goiter, treatment; Goiter, Exophthalmic, treatment; Hyperthyroidism, treatment
treatment; intravenously in bubonic plague, [Bharadwaj] 1585—ab
treatment of actinomycosis, [Chitty] 1320—ab
treatment of chronic rheumatism, [de Jong & Wolff] 450—ab
treatment of vasomotor rhinitis, [Sternberg & Sugar] 1809—ab
IODIPIN: See Iodized Oil
IODIZED OIL for visualizing coronary artery, [Rousiacrois] 808—ab
in chest roentgenography, [Archibald] 376—ab
in diagnosing cauda equina tumors, [Wolfsohn & Morrissey] *1828
in diagnosis and treatment of bronchial affections, [Pritchard & others] *1119
in diagnosis and treatment of tuberculous serositis, [Fiessinger & Lemaire] 1323—ab
in diagnosis of laryngeal, tracheal and bronchopulmonary conditions, [Iglauer] *1879
in diagnosis of lung lesions, [Ballon] 376—ab
in diagnosis of pregnancy, [Heuser] 232—ab
in lung roentgen study, [Grady] 1315—ab
in neurosurgery, [Maclaire] 579—ab
in pericardium roentgenography, [Castex & others] 1251—ab; 1925
in spinal canal dangerous, [Sharpe & Peterson] 1096—ab
in subphrenic cyst diagnosis, [Castex & others] 1252—ab
in surgical tuberculosis, [Delbet] 313—ab
injury in tuberculosis, [Lichtwitz] 1104—ab
liplodol and lodipin in roentgenography and therapy, [Beifield & Rolnick] *1831
IONS in growing bones, [Stoye] 2006—ab
IOWA, reregistration in, [Griswold] 1136—ab
IRIDOCYCLITIS, endogenous, [Kubik] 1953—ab
IRIS, pigmentation, [Münch] 589—ab
IRISH MEDICAL REGISTER, proposed, 564; 964; 1301
IRON and blood regeneration, 1075—E
determination in blood, tissues and urine, [Fowweather] 1398—ab
effect on tubercle bacillus growth, [Henley] 306—ab
metabolism, [Oppenheimer] 991—ab
metabolism and blood, [Asher] 454—ab
preparations, "organic," [Heubner] 1808—ab
rust, removal, from water, 709
therapy in anemia, [Whipple] 367—C; [Osborne] 571—C; 1092
therapy in anemias of infancy, [Bass & Denzer] *938
IRRITABILITY, feminine, 281—E
of men and women, [Williams] 511—ab
IRRITATION and congenital syphilis, [Fischl] 1406—ab
ISACEN, new purgative, [Einhorn & Rafsky] *1754; 1769
ISCHEMIA: See Hemorrhage
ISCHIAL-RAMIC DIAMETER, vs. common left cervical tear, [Gardiner] *161
ISLANDS OF LANGERHANS tissue increased in child of diabetic mother, [Gray & Feemster] 1655—ab
ISOHEMAGGLUTINATION: See Blood groups
ISRAEL, J., death of, 1087
ITALIAN physicians resident in foreign lands, 704
colonial medicine, 1710
hydrologic society, annual meeting, 1637
Society of Internal Medicine, 51
Society of Neurology, congress, 1710

J

JACKSON, JABEZ NORTH, President-Elect of the A. M. A., 1353—E
JAPANESE practitioners in Far East, 1146
practitioners in North Sagalein and Siberia, 1302
JAUNDICE, acholuric, splenectomy in, [MacErlean] 807—ab
catarrhal, motility of biliary passages in, [Kaik & Schoendube] 1491—ab
deep, with umbilical hemorrhage, (correction) [Sison] 128—ab
familial, and liver cirrhosis, [Bischoff & Bruhl] 1407—ab
grave hemophilia with, [Weil & Stieffel] 987—ab
hemolytic, [Boros] 1256—ab; [Salomonsen] 1492—ab
hemolytic, microcytosis in, [Whitcher] 67—ab
hemolytic, splenectomy in, [Hannema] 723—ab
in myocardial insufficiency, [Keefer & Resnik] 1941—ab
obstructive, phenolsulphonphthalein excretion in, [Abramson] 1481—ab
of new-born, [Hart] 377—ab; [Slobozianu] 990—ab; [Kramer] 991—ab
pathogenesis, [Meulengracht] 590—ab
spirochetal, [Mikulowski] 1324—ab
spirochetal, mental derangement with, [Hesnard] 1871—ab
spirochetal, silent infection in, [Reiter] 1589—ab
spleen-liver enlargement with, [Castro Emia] 1404—ab
treatment, insulin, [Klein] 237—ab
JAVA, medical folklore in, [Bier] 238—ab
JAW, dislocated, reposition, [Wiedhopf] 78—ab
necrosis from benzene, [Löwy] 1667—ab
syphilitic arthritis, [Baltscheffsky] 1258—ab
tumor causes fatal hemorrhage after tooth extraction, [Kroh] 236—ab
tumors, mixed, [Martinez] 157—ab
JEJUNOSTOMY: See also Gastrojejunostomy
effect on intestinal obstruction, [Orr & Hayden] 374—ab
effect on jejunal obstruction, [Haden & Orr] 1941—ab

JEJUNUM Ulcer: See under Peptic Ulcer
obstruction, [Haden & Orr] 1041—ab
JEWISH SCIENCE, [Paulsen] *1521
JEWS, numerus clausus vs. Budapest University, Hungary, 886
numerus clausus in Roumanian universities, 1782
JIGGER scourge, eradication, [Jolly] 1945—ab
JOHNSON, LINN D., in syndicate of frauds, 641—P
JOINTS capsule, chondroma in, [Fenger] 1258—ab
aspiration, [Lonergan] 1939—ab
disease, implant treatment, [Robertson Lavalle] 1587—ab
disease, initial sign of tabes, [Zanoli] 156—ab
infected, amputation with, [Tekarek] 1491—ab
injuries, active mobilization in, [Willems] 585—ab
intermittent effusions in, [Schlesinger] 728—ab
syphilis, [Baltscheffsky] 1258—ab
tuberculosis, bone implant bridge for, [Lavalle] 916—ab
tuberculosis, heliotherapy in, [Freiberg] *733
tuberculosis, pathology, [Smith] 1483—ab
tuberculosis, treatment, [O'Conor] 1584—ab
JOURNALS, American Journal of Electrotherapeutics and Radiology, 286
American Journal of Surgery changes publishers, 1706
Applied Religion organ of Guild of Health, [Paulsen] *1623
Archives of Disease in Childhood, 702; 1135—E
Archivos de Enfermedades del Aparato Digestivo y de la Nutrición, 1377
Archivos de los Hospitales, 1085
Archivos Oftalmológicos de Buenos Aires, 1377
Bollettino della società di biologia sperimentale, Society of Experimental Biology, 497
Bordeaux Medical Journal, centennial of, 128
British Medical Journal, official surgery, 422—E
Bulletin of Hygiene, 128
Cancer Review, 1636
Journal of Abnormal and Social Psychology committee report on supernormal phenomena, 761
Journal of Neurology and Psychopathology to be published by British Medical Association, 1634; 1708
M. I. L. Review dealing with financial interests of medical profession, 1639
Malayan Medical Journal and Estate Sanitation, 1372
Oriental Journal of Diseases of Infants, 1223
Quarterly Review of Biology, 1457—E
state society journals, progress, 489—E
Unity, organ of Scientific Christianity, [Paulsen] *1617
JUGULAR VEIN: See Veins
JURISDENCE, Medical: See Medical Jurisprudence
JUTE dermatitis, 1772—E

K

KAHN PRECIPITATION TEST, [Magalhães & Crespo de Castro] 1806—ab
antigen, stability, [Kendrick & Jenks] 1098—ab
compared with Kolmer test, [Kelly] 1396—ab; [Glordano] 1396—ab; [Owen & Cope] 1396—ab
reliability, [Greenbaum] *1273
U. S., Navy adopts it as standard, 210
KALA-AZAR: See Leishmaniasis
KAOLIN in intestinal disease, 1217—E
KASTLE-MEYER TEST: See Blood stain
KATTI OIL poisoning, [Sarkar] 1585—ab
KEENEY, HOMER L., 56-P
KEIO DIETETIC LABORATORY, 1146
KERATITIS, avoidable, [Campos] 1102—ab
from dehydration, [Campos] 235—ab
KERATOSIS, arsenical, [Osborne] 376—ab
KERNIG SIGN: See Poliomyelitis
KETONURIA: See Urine, ketonuria
KETOSIS: See Acidosis
KIDNEY: See also Urinary Tract
blood circulation, 201—E; [Hayman & Starr] 227—ab; [Zeckwer] 1479—ab
Calculi: See also Urinary Tract calculi
calculi, bilateral, [Thomas] 71—ab
calculi, prevention, 1308
calculi, suture after pyelolithotomy, [D'Agata] 1403—ab
calculi, treatment, [Kalk & Schöndube] 727—ab
calculi, with digestive disorders, [Martini] 1404—ab
cancer, [Rusche] 1864—ab
cancer, with fibrinuria, [Chauvin] 1949—ab
changes and blood pressure, [Beckmann] 587—ab
chloride excreted by, [de Wesselow] 73—ab
counterbalance, [Hinman] 1579—ab
cysts, multilocular, [Rovsing] 1875—ab
cysts, serous, treatment, [Laquière] 313—ab
degeneration, total sclerolipomatous, [Spurr] 454—ab
Disease: See also Nephritis; Paranephritis; Pyelitis; Pyelonephritis; etc.

KIDNEY—Continued
disease, blood and urine examination in, [Maclean] 723—ab
disease, diagnosis, [Thomas] 908—ab
disease, from cystin, [Lignac] 318—ab
disease, lipoid, so-called, [Warfield & Murphy] 1937—ab
disease, medical diathermy in, [Kolischer & Jones] *1606
disease, plasma lipoids in, [Daniels] 653—ab
disease, Renano, kidney cure, 504—P
floating, [Pierl] 1733—ab
floating; nephropexy, [Bisquertt] 1951—ab
Function: See also under Diuresis; Urea; Urine
function, [Edwards] 903—ab
function and water metabolism, [Gigon] 726—ab
function of kidney transplants, [Ibuka] 1796—ab
Function Tests: See also Diuresis
function tests, [Bullrich & Digiorgio] 383—ab
function tests, acid-alkali elimination, [Rehn] 728—ab
function tests compared, [Busch] 1258—ab
function tests, creatinin, [Ockerblad] 71—ab
function tests, phenolsulphonphthalein, [Casaubón & Winocur] 1405—ab
function tests simultaneous with cholecystography using sodium phenoltetraiodophthalein, [Graham & others] *467
function tests, stain, [Lundsgaard & Møller] 1174—ab
function tests, urea, [Rabinowitch] 69—ab
function vs. surgery, [Rehn] 729—ab
function with one kidney, [Arataki] 716—ab; [Foster] 980—ab
glomerular circulation, 201—E
glomerular circulation after renal vein occlusion, [Zeckwer] 1479—ab
glomerular function, [Richards] 579—ab
glomeruli, chloride concentration in, [Wearn & Richards] 448—ab
growth in remaining kidney after nephrectomy, [Arataki] 716—ab
horse-shoe, disturbances from, [Brecher] 728—ab
in tuberculous children, [Bonacorsi] 1203—ab
infections in childhood, treatment, [Hodge] 75—ab
injury by amino-acids, [Newburgh & Marsh] 148—ab
injury, testicle tenderness from, [Severin] 1174—ab
insufficiency, bismuth carbonate in, [Yarotzky] 451—ab
insufficiency, blood phenol in, [Becher & Litzner] 1173—ab
insufficiency, diet and hypertension in, 1770—E
insufficiency, experimental, [Anderson] 1653—ab
insufficiency, incipient, [Guttentag] 159—ab
insufficiency vs. anemia, [Adams & Brown] 1160—ab
pelvis, pyelovenous back flow, [Bird & Moise] *661; [Hinman & Veck] 1726—ab
polycystic, [Fuentealba] 315—ab
protein diets (high) and, [Miller] 982—ab; [Jansen & Rising] 1316—ab
roentgen irradiation, chloride excretion after, [Engelhard & Sielmann] 587—ab
surgery vs. function, [Rehn] 729—ab
syphilis, acute, [Hood & Murphy] 1578—ab
syphilis and, [Tallqvist] 1812—ab
transplant, autogenous, function, [Ibuka] 1796—ab
transplant, homogenous, function, [Ibuka] 1796—ab
transplantation, [Lurz] 589—ab
transplanted vs. diuretics, [Holloway] 1247—ab
tuberculosis, [Bloch] 1733—ab; [Westerborn] 1807—ab
tuberculosis, and trauma, [Howard & LeCoque] 1248—ab
tuberculosis, autonephrectomy, [Player & Redewill] *17
tuberculosis in children, [Falci] 517—ab
tumor; hypernephroma vs. surgery, [Rehn] 729—ab
vasoconstriction and albuminuria, [Starr] 1096—ab; 1134—E
KING LABORATORIES, 644—P
KING'S COMBINED PYORRHEA TREATMENT, 1772—E
KIRCHNER, MARTIN, death of, 134
KIRKPATRICK'S PUL-BRO-TU, 708—P
KLIEG EYES: See under Eye
KNEE, See also Patella
disease, bone transplantation in, [Dupuy de Frenelle] 989—ab
dislocation, familial, [Murphy] *395
epicondyle fracture at knee, [Ferranini] 156—ab
injected, study of, [Colp & Klingenstein] 718—ab
injury, [Lussana] 726—ab
injury; repair of cruciate ligaments, [Edwards], 1165—ab
sarcoma, [Fedeli] 2004—ab
synovitis, [Lävgen] 1810—ab
tuberculous, resection technic, [Fredet] 1949—ab
KNIFE, biopsy, [Dupin] *749
KOCH'S "CANCER ANTITOXIN", 1469—P
KOLMER'S TEST: See Wassermann Test
KORANYI, ALEXANDER, anniversary 431
KOREA IMPERIAL UNIVERSITY, 1146
KOROTKOV COMPRESSION SOUNDS, [Korns] 1938—ab
KORSAKOFF'S DISEASE, [Marcus] 386—ab
KROMAYER LAMP, 972
KUHLMANN TEST, psychiatric value, [Kuhlmann] 1245—ab
KYPHOSIS: See Spine, curvature

L

LABOR: See also Obstetrics
Anesthesia in: See under Anesthesia
cause of onset of, [Kroms] 978—ab
conduct, and ischial-ramic diameter, [Gardiner] *161
conduct, bearing down efforts of parturient, [Hoehne] 1811—ab
drugs in, phenobarbital in breast milk, [Frensdorf] 1591—ab
drugs in, pituitary extract, [Sherrill] 303—ab; [Tholen] 1592—ab; [Muller] 1955—ab
Examination during: See also Labor, rectal examination; Pregnancy, rectal examination
examination during, glycerin for vaginal lubricant, 645
forceps cases, failed, [Phillips] 910—ab
forceps, Demelin's D 8, [Krecar] 238—ab
forceps, Kielland, [Baumm] 1590—ab; [Frey] 1876—ab
forceps, Kielland, for occipitoposterior position, [Bacon] *465
hemorrhage, accidental and placental infarction, [Browne] 1802—ab
hemorrhage, uterus retraction and hemostasis post partum, [Wieloch] 159—ab
hemorrhage vs. acetylene anesthesia, [Maurer] 78—ab
hemorrhages, grave, [Morville] 386—ab
hemorrhages, sodium citrate for, [Benaud] 1170—ab
Mortality: See Maternal mortality
obstetrical future of women after low transperitoneal cesarean section, [Wetterwald] 1732—ab
older primiparas, [Remmelts] 1591—ab; [Jaroschka] 1736—ab
polycythemia and, [Paulicek] 316—ab
premature, with intact amniotic sac, [Lindsay] 1943—ab
premature, with survival of child, [Lyon] 656—ab
preparation of external genitalia, [Lankford] 1393—ab
presentation, breech causes spinal cord lesions, [Ford] 446—ab
presentation, breech, of hydrocephalic child, [Piatte] 1592—ab
presentation, deflexion, [Kamniker] 1255—ab
presentation (head, feet and legs born together), [Malan] 1484—ab
presentation, manual intra-uterine rotation of fetus, [Smith] 1797—ab
presentation, occipitoposterior, Kielland forceps or manual rectification for, [Bacon] *465
prognosis, [Aschner] 810—ab
pulse volume in, [Haupt] 1326—ab
rectal examination in, prevents fever, [Kolier] 519—ab
rectal vs. vaginal examination [Baum] 1810—ab
LABORATORY: See also Roentgen Ray laboratory
clinical, approved, essentials of, *1068
clinical, new one in Australia, 1082
clinical, provisional list of, *1070
clinical, service in U. S., report, *1065
clinical, statistics, 1076—E
director wanted in Egypt, 495
manuals, model, of Veterans' Bureau Medical Service, 956—E
methods in diagnosis, value, [Andrews] 723—ab
of Utrecht, report, 566
records, right to inspect, 1934—MI
school of medicine in Venice, 52
tested, reduced charges at Institute of Pathology at Charing Cross Hospital, 1143
LABYRINTH: See under Ear
LACQUER dermatitis, [Williams] 376—ab
LACRIMAL ORGANS, cancer of sac, [Epiphora] 727—ab
LACTIC ACID: See Acid, lactic
LACTOBACILLUS acidophilus: See Bacillus, acidophilus
LACTOSE in Blood: See Blood, lactose
in tissues, blood and kidneys, [Bernheim & Schlayer] 521—ab
LAENNEC, RENÉ THEOPHILE, centenary of death, [Fossier] 802—C
LAMBLIASIS, [Marcelius] 229—ab
cause of chronic enteritis, [Miller] 1869—ab
cholecystitis and, [Pappalardo] 518—ab
of biliary passages, [Castex & Galán] 157—ab
of gallbladder, [Labbé & others] 380—ab
LAMP shade industry, hazards of, 1715
LANGUAGE, spoken, capacity of children to understand, 1781

LAPAROTOMY: See under Abdomen
LARSON'S RING TEST: See Ring Test
LARVA MIGRANS: See Creeping Eruption
LARYNGECTOMY; LARYNGOSTOMY: See Larynx, surgery
LARYNGOFISSURE: See Larynx surgery
LARYNX cancer, [Dennis] 225—ab; [Thomson] 904—ab
cancer, laryngectomy, [Colledge] 984—ab
cancer, laryngofissure for, [Burger] 722—ab; [Tucker] 904—ab; [Thomson] 904—ab
cancer, roentgenotherapy, [Prinz] 1406—ab
Diphtheria: See Diphtheria
disease of gastro-intestinal origin, [Allaga & Marenco] 1735—ab
examination, dorsal sitting position for, [de River] *748
innervation, [Tanturri] 726—ab
roentgen study, iodized oil in [Iglauer] *1879
speech without larynx, [Burger] 722—ab
surgery, hemilaryngectomy, 966
surgery, laryngectomy for cancer, [Colledge] 984—ab
surgery; laryngofissure for cancer, [Burger] 722—ab; [Thomson] 904—ab; [Tucker] 904—ab
surgery; laryngoplasty, [Schmieden] 1809—ab
surgery; laryngostomy, postoperative care, [Baum] 512—ab
test for tubercle bacilli, [Silwer & Rasch] 1670—ab
tuberculosis, [Moore] 1659—ab
tuberculosis, galvanocautery, [De Reynier] 1488—ab
tuberculosis pain, alcohol injection for, [Swetlow] 305—ab
tumor, papilloma, roentgenotherapy, [Solomon & Blondeau] 1732—ab
LATERAL SINUS infection, [Tobey] 718—ab
thrombophlebitis, [Rodella] 235—ab
LATIN AMERICAN Medical Congress, 1779
LEAD absorption through skin, 1286—ab
Poisoning: See also Tetra-Ethyl Lead
poisoning, blood pressure in, [Invernizzi] 1253—ab
poisoning causes epidemic angina pectoris, [Kohn] 1589—ab
poisoning, from paints, protection against, England, 1922
poisoning, government bill to prevent, England, 1373
poisoning in nursing infants from nipple shields, [Wilcox & Caffey] *1514
poisoning, industrial, prevention, [McKail] 1162—ab
poisoning, meningocerebral tolerance in, [Weller] 1861—ab
poisoning simulating trigeminal neuralgia, [Foshay] *1688
poisoning vs. drinking water, 1715
transportation in body, 338—ab
treatment of cancer, [Bell] 231—ab; [Coke & Cook] 1320—ab; [Bell & others] 1321—ab
LEAGUE OF NATIONS committee discusses alastrim-smallpox question, 563
Darling prize for research in malaria, 70
epidemiologic report on yellow fever, 563
interchange of medical officers, 209
international health board, work of, 209
LECITHIN vs. chloroform anesthesia after-[Birkhold] 1581—ab
LEECH invades male urethra, [Mitra] 1249—ab
LEG: See also Extremities; Fractures
artificial, ancient, [Putti] 915—ab
artificial, disturbances from, [Zur Verth] 1175—ab
artificial, fitting socket, [Little] 310—ab
fractures, treatment, [Stassen] 1491—ab
gangrene, in infant, [Grove] 1869—ab
Ulcer: See Ulcer; Varicose Veins
venous pressure in, [Schott] 1175—ab
LEGG-PERTHES DISEASE: See Osteochondritis deformans juvenilis
LEGISLATION, MEDICAL: See also Licensure; Medical Practice Acts; State Boards
A. M. A. resolution on, 1356
LEISHMANIASIS, cutaneous reaction in, [Montenegro] 1316—ab
in children, [Cannata] 452—ab
in India, 637; [Mudalair] 1485—ab
in New York, [Junkin] *479
radiotherapy, [Timpano] 1403—ab
treatment, 637
LEMON rind, vitamin B of, [Willimott] 1398—ab
LENS: See Glass, optical
LENTICULAR DEGENERATION: See Hepatolenticular Degeneration
LEONTIASIS OSSEA of long duration, [Hamburger & Nachlas] 1483—ab
LEPROSY, cause of death in, [Pineda] 721—ab
blood in, [Schöbl & Ramirez] 1727—ab
control, [Perkin] 721—ab
control, France, 638
experimental, in monkeys, [Reenstierna] 986—ab
in British Empire, 637
in France, 49; 638
in Japan, 636; 1302
in Moluccas, [Kopstein] 1591—ab
lepra cell origin, [Oliver] 1347—ab
nasal lesions, bacteriology, [Solis & Wade] 721—ab
LEPROSY—Continued
necropsy findings in, [Sabrazès] 912—ab
Spain to hospitalize lepers, 1224
treatment, chaulmoogra or hydnocarpus oil, [Hirst] 515—ab
treatment, hydnocarpus oil, 637
Wassermann test in, 1925
LEPTOSPIRA, akiyama caused by, [Koshina & others] 982—ab
LESIKUR'S SYMPTOM in typhoid, [Trentini] 1805—ab
LETTUCE, Chilomastix mesnili on, [Dickie] 58—C
LEUKEMIA, acute lymphatic, [Cate] 1320—ab
acute, and infectious mononucleosis, [Schenck & Pepper] 1796—ab
aleukemic, transformed into leukemic myelosis, [Gola] 1730—ab
blood in, [Jaksch-Wartenhorst] 1954—ab
chronic, childbirth in, [Chirari & Dautwitz] 317—ab
erythrocyte production in, vs. irradiation, [Isaacs] 1159—ab
fatal hemorrhagic condition in, [Emile-Weil] 1169—ab
leukemoid blood pictures, [Krumbhaar] 1794—ab
Mikulicz syndrome in, [Fernández & others] 657—ab
mycosis fungoides, lymphosarcoma and, [Fraser] 376—ab
myelogenous, transformed in aleukemic, [Gola] 1730—ab
myeloid, hemorrhagic purpura in, [Chauffard & others] 1168—ab
myeloid, treatment, [Sergent & Mignot] 380—ab
pseudoleukemia, [Simonds] 70—ab; [Waugh] 2002—ab
treatment by malaria inoculation, [Lucherini] 586—ab; [Riffi] 915—ab
LEUKOCYTES, biologic differentiation in, vs. blood transfusion, [Doan] *1593
count, effects of dry cupping, 1085
count in chronic appendicitis, [Menninger & Holder] 581—ab
count, normal, with liver-spleen enlargement, [Castro Emia] 1404—ab
count, peripheral, [Müller & Petersen] 1172—ab
count vs. chlorine treatment, [Allen] 151—ab
count, vs. mental and emotional states, [Mora & others] *945
count, vs. mesenteric lymph gland extract, [Mole] 1099—ab
fate in tuberculin reactions, [Stewart & others] 1479—ab
fragility test in pneumonia prognosis, [Pons & Ward] 150—ab
in gastro-enteritis, [Heissen] 521—ab
in infants, [Schmal & others] 1877—ab
leukopedesis in alimentary anaphylaxis, [Loeper & Marchal] 75—ab
leukopedesis into stomach in various disease, [Mauro] 1253—ab
monocytes and trialism, [Schilling] 1953—ab
nuclei in syphilis, [Lemke & Streblow] 1103—ab
reactions, [Jacobsen] 1956—ab
reactions in exanthematous diseases, [Bunting & Thewlis] 1482—ab
tubercle formation and, [Maximow] 150—ab
LEUKOCYTOSIS after burns, [Schreiner & Puscko] 455—ab
lymphocytes in, [Pimenta Bueno] 519—ab
mononucleosis, infectious, and acute leukemia, [Schenck & Pepper] 1796—ab
LEUKODERMA: See Vitiligo
LEUKONYCHIA of finger nails, 505
LEUKOPENIA, [Beers] 1868—ab
LEUKORRHEA, treatment, lactic acid, [Naujoks & Behrens] 919—ab
treatment, silver nitrate solution, [Zweifel] 159—ab
LEUKOTOXINS, specific, in blood plasma, [Doan] *1594
LEVULOSE formation in diabetes, [Steinberg & Elberg] 384—ab
LEVULOSURIA: See Urine
LHOTAK, KAMIL, death of, 703
LIABILITY: See Fees; Hospitals; Malpractice
LIBRARIES, MEDICAL, cooperate, Chicago, 1556
coordination of, England, 1635
Library of College of Physicians of Philadelphia, 880
package library at Indiana University, 1138
LICENSURE: See also Medical Practice Acts; State Board
annual congress on, 203; 281—E; 629; 694; 756; 875; 956; 1077; 1135; 1218
Commission of Association of American Medical Colleges and, [Rappleye] 1078—ab
diploma mill head commits suicide, 1842
diploma mill scandal, confessions in, 121—E
diploma mills, [Waite] 1136—ab
diploma mills, Adcox confession, 44; 121—E; 424
diploma mills, "correspondence", Council on Medical Education and Hospitals, report, *1527
diploma mills in Arkansas, 1554—E
diploma mills in Missouri, 1915—E
diploma mills, state license statistics, 1551—E
LICENSURE—Continued
diplomas, fake, sold in Japan, 498
education requirements reasonable for, 1649—MI
improved standards, 1548
in Connecticut, [Rowley] 1135—ab
of foreign physicians, 1554—E
of foreigners, Michigan, [Connor] 957—ab
opticians attempt to obtain registration, England, 1463; 1922
osteopathy in House of Commons, England, 883
proposed separate medical register for Irish Free State, 1301
reciprocity, certificate of graduation, 1240—MI
reregistration in Iowa, [Griswold] 1136—ab
revocation, [Bonner] 1136—ab
revocation, advertising a cure, 1476—MI
revocation, constitutionality of, 1649—MI
revocation, due process, 715—MI
revocation, fraudulent certificate, 715—MI
revocation, on testimony by deposition, 1914—E
revocation, revives prior license, 224—MI
statistics for 1925, Council on Medical Education and Hospitals report, 1533
statistics, state, 1551—E
LICHEN planus, treatment, 59
planus, roentgenotherapy, [Spillman & Watrin] 725—ab
LICORICE powder adsorption in pills, [Sabalitschka] 316—ab
LIFE expectancy of physicians, Netherlands, [de Wilde] 318—ab; 1087
LIFTING, towel sling method, [Murphy] *33
LIGAMENTS: See also Broad Ligament
cruciate, repair, [Edwards] 1165—ab
LIGHT: See also Sunlight
action on blood, [Koch & Reed] 903—ab
physiologic aspects of glare, 488—E
red light treatment of herpes zoster, [Jacobson] 805—ab; (correction) 1483—ab
rickets etiology and, [Doubnitz] 536—ab
Therapy: See Heliotherapy; Phototherapy; Ultraviolet Rays
vitamin A and, [Bloch] 660—ab; 1479—ab; 1699—E
LIMBS: See Extremities: Arm; Leg
LINCOLN-JEFFERSON UNIVERSITY, *1528
LINIMENTS, [Fantus] *276
LINNITIS Plastica: See Stomach, leather-bottle
LIP, upper, from embryology and art standpoint, [Meige] 585—ab
LIPASE factor vs. tuberculosis etiology, [Robinovitch & others] 906—ab
LIPEMIA: See Blood fat
LIPIODOL: See Bronchus, roentgen study; Bronchiectasis; Iodized Oil
LIPODYSTROPHY and hyperthyroidism, [Marañon & Soler] 1656—ab
LIPOIDS, biologic significance, [Much] 311—ab
antibodies, [Brandt & others] 1867—ab
in Blood: See Blood fat
in syphilis serodiagnosis, [Grineff & Baranova] 1408—ab
injection induces Wassermann test, [Brandt & others] 991—ab
theory of anesthesia, [Winterstein] 1876—ab
wound healing and, [Berberich & Eliassow] 77—ab
LIPOMAS, retroperitoneal, [Krogius] 160—ab
LIQUIDS, peroral administration, [Fantus] *1284
LIQUOR: See Alcohol; Moonshine; Prohibition; Whisky; Wines
LISTER, JOSEPH, did he know about Semmelweis? 886
LITERATURE, MEDICAL: See also Books; Incunabula
[Van Rijnberk] 1492—ab
importance of practicing ophthalmologist of contributing to, [Knapp] *1759
LIVER abscess, amebic, blood in, [D'Amato] 76—ab
abscess after appendicitis, [Eliason] 1944—ab
abscess, amebic, [Pontano] 1886—ab
abscess, International Congress of Surgery discusses, 1994
abscess, emetine for, [Manson-Bahr & Morris] 807—ab
acute yellow atrophy causes cirrhosis, [Pratt & Stengel] 2000—ab
anomaly, accessory lobe attached to gall-bladder, [Brownlee] *193
anomaly, accessory lobes, [Cullen] 718—ab
blood cholesterol and, [Thannhauser & Schaber] 1255—ab
cancer, [Counseller & McIndoe] 1654—ab
cancer, multinucleated, [Rowen & Mallory] 651—ab
carbohydrate cleavage in, [Wohlgemuth & Sorochowitsch] 1874—ab
cirrhosis, and familial jaundice, [Bischoff & Bruhl] 1407—ab
cirrhosis, blood sulphur in melanoderma with, [Loeper & others] 1871—ab
cirrhosis, esophagoscopy in, [Gilbert & others] 912—ab
cirrhosis from acute yellow atrophy, [Pratt & Stengel] 2000—ab

LIVER—Continued
cirrhosis in children, [Poynton & Wyllie] 1397—ab; [Gunn] 1939—ab
cirrhosis, in peritonitis, [Garnier] 1486—ab
cirrhosis, omentopexy in, [Lester] ★1123
cirrhosis, syphilitic, in boy, [Simpson] 980—ab
cirrhosis, Talma's operation, [Tempsky] 1875—ab
cirrhosis, with enterococcus pleuroperitonitis, [Dumitresco-Mante & Olinesco] 1251—ab
cyst, iodized oil diagnosis, [Castex & others] 1252—ab
disease and cholecystography, [Fried & Whitaker] 1654—ab
disease, chronic interstitial, [Munns] 1795—ab
disease in syphilitic, [Dumitresco-Mante] 380—ab; [Zieler] 918—ab
disease, insulin in, [Klein] 237—ab
disease, insulin with dextrose for, [Grunenberg] 1255—ab
disease, kidney function stain test in, [Lundsgaard & Moller] 1176—ab
disease-syphilis-arsphenamine, [Meyer] 383—ab
disease, with hemorrhagic diathesis, [Smotroff] 1954—ab
enlarged, with normal leukocyte count, [Castro Emia] 1404—ab
extracts effect on hypertension 368; [Major] 1794—ab
fatty, as cause of death, [Le Count & Singer] 717—ab
fatty degeneration, [Larini] 1806—ab
ferments, intracellular, [Staemmler] 1172—ab
function, disturbed, [McClure & others] 149—ab
function in pregnancy toxemia, [Naujoks] 318—ab
function studies, [McVicar] 1651—ab
function test, [Merck] 1667—ab; [Rubenstone & Tuft] 1866—ab
function test, hemociastic, and vagotonia [Widal & Abrami] 516—ab
functoin test in eclampsia, [Stephenson] 1864—ab
function test, Rosenthal, [Friedenwald & Morgan] 375—ab; [Berger & others] ★1114
function test simultaneous with cholecystography using sodium phenoltetraiodophthalein, [Graham & others] ★467
function tests compared (Van den Berg, Widal, Rosenthal, Hay, and urine examined for urobilin and urobilinogen), [Berger & others] ★1114
gallstones in, [Hansen] 1956—ab
glycogen vs. insulin, [Adlersberg & Porges] 1172—ab
injury in thyrotoxicosis, [Youmans & Warfield] 1160—ab
innervation, [Müller] 728—ab
insufficiency, hemocrasic, [Brugi] 1404—ab
insufficiency, inulin-sugar treatment, [Jacoby] 727—ab
lesions after spleen autolysis, [Flessinger & others] 725—ab
necrosis, hemorrhagic, with pulmonary tuberculosis, [Cain & Boltanski] 155—ab
porocephaiosis, [Riding] 1249—ab
prolapse in umbilical hernia, [Vogeler] 1669—ab
roentgen study, [Fried & Whitaker] 1654—ab
surgery, excision vs. bilirubin formation, [Meichlor & others] 1736—ab
surgery, resection, [Fasano] 381—ab
syphilis in boy, [Simpson] 980—ab
tumors, malignant, [Smith] 1655—ab
urea and, 1629—E
water metabolism and, [Lenaz] 1589—ab
LLAMA syphilis serum, 1376
LLURIA, ENRIQUE, death of, 212
LOCHIA: See Vagina, secretion
LOCOMOTION, body build and mental characteristics, [Gurewitsch] 1807—ab
LOCOMOTOR ATAXIA: See Tabes Dorsalis
LOESER'S INTRAVENOUS SOLUTION of Sodium Thiosulphate and of Calcium Chloride—explanation, 217—P
LONDON HOSPITAL, endowment of research at, 1143
LONGEVITY: See also Life expectancy; Old Age
urology effect on, [Thomas] ★1957
LOTIONS, [Fantus] ★196; ★274; ★624
LOZENGES, [Fantus] ★623
LUESAN, 972
LUMBAR PUNCTURE: See Spinal Puncture
LUMINAL: See Phenobarbital
LUNGS abscess, pneumothorax for, [Tewksbury] 446—ab
abscess, postoperative, etiology, [Holman] 1245—ab
abscess, produced by infected emboli, production of, [Cutler & others] 1651—ab
abscess, surgery for, [Lambert] 1577—ab
abscess, treatment, [Miller & Lambert] 1159—ab
cancer, primary, [Brunn] 905—ab; [Hueper] 1480—ab; [Grove & Kramer] 1578—ab
cancer, recent increase in, 486—E
cavity in, technic for filling, [Josefson] 1666—ab
changes, after artificial hemoptysis, [Austrian & Willis] 1794—ab
LUNGS—Continued
collapse, massive, 471—ab
cyst and hydatid pneumothorax, [Bacalogiu & Tanasesco] 75—ab
cysts, congenital, [Koontz] 226—ab
echinococcosis, in children, [Morquio] 986—ab
echinococcosis, in tuberculosis, [Bonaba] 2805—ab
echinococcosis pneumothorax and pneumocyst, [Bacalogiu & Tanasesco] 75—ab
ectoscopy, [Weisz] 1952—ab
edema, acute suffocative, [Merrin & others] 1802—ab
edema, glucose injection for, [Latzel] 237—ab
edema, production, [Lambert & Gremels] 1802—ab
elimination through, 395—ab
gangrene, phrenicotomy in, [Maurer] 1170—ab
gangrene, treatment, [Castex & others] 1251—ab
gangrene vs. spirochetes, 1228
infection, mucor, [Freed & Webb] 229—ab
infection, postoperative, pathogenesis, [Lemon] 905—ab
infection, streptothrix, [Giddings] 1583—ab
infiltration, primary, [Redeker] 2006—ab
infiltration with rectogenital pouch tumor, [Barnes & others] 985—ab
lesions, lipiodol diagnosis, [Ballon] 376—ab
reaction to tuberculous infection, [Lang] 150—ab
roentgen study with lipiodol, [Grady] 1315—ab; [Iglauer] ★1879
splint, [Wingfield] 723—ab
tumors, experimental, [Murphy & Sturm] 227—ab
Vital Capacity: See Vital Capacity
LUPUS and nodular syphilis, [Dumollard] 1401—ab
treatment, 1709
LUSTIG, ALESSANDRO, Italian precursor of Pasteur, 1228
LYE bill, Massachusetts senate disapproves, 1775
bill to label lye and other caustics, U. S., 286; 881; 1141
legislation, Section on Laryngology, Otology and Rhinology committee report, [Jackson & Chamberlin] ★414
LYMPH from thoracic duct as antidiabetic, [Klug] 1953—ab
LYMPH NODES: See also Glandular Fever; Lymphatic System; Lymphatism
abdominal, tuberculous, [Robertson] 1869—ab
cancer, radiation reaction, [Quick & Cutler] 651—ab
cervical, enlarged, 572
enlarged, treatment, [Peschié] 385—ab
local immunization and, [Goldenberg & Paniset] 912—ab
mesenteric, extract effect on leukocytes, [Mole] 1099—ab
mesenteric, function as spleen, [Mole] 910—ab
mesenteric, tuberculosis, [De la Alberca] 586—ab
poradenitis, inguinal, [de Bellard] 1946—ab
skin in tuberculosis and, [Martenstein & Amster] 1590—ab
stasis, cholesterol in, [Stenhouse] 1724—ab
tracheo-bronchial, bilirubin simulating asthma, [Peshkin & Fineman] ★1429
tuberculosis, [de la Alberca] 586—ab; [Peshkin & Fineman] ★1429
tuberculosis, bilium, [Zacks] ★598; [Freed & Webb] 904—ab
tuberculous adenitis, [Criep & Narr] 579—ab
tuberculous adenitis, radium therapy, [Gosse] 1803—ab
tuberculous, roentgenotherapy, [Amundsen] 1258—ab
tumors, study of, 1300
LYMPHADENOSIS: See Lymph Nodes, enlarged
LYMPHATIC SYSTEM vs. bone marrow, [Kolodny] 718—ab
LYMPHATICOSTOMY for peritonitis, [Whiteford] 152—ab; [Cooke] 152—ab
LYMPHATISM, investigation, 1225
diabetes mellitus associated with, [Major & Helwig] ★1766
LYMPHOBLASTOMA, [Minot & Isaacs] ★1185, ★1265
LYMPHOCYTES in leukocytosis, [Pimenta Bueno] 519—ab
question, [Bergel] 77—ab
LYMPHOCYTOSIS, spinal, in heart disease, [Alvarez & Fracassi] 383—ab
LYMPHOGRANULOMATOSIS, [Minot & Isaacs] ★1185, ★1265
Dorothy Reed cell in, 1786
in child, [Gysi] 1173—ab
subacute inguinal, [Destéfano & Vaccarezza] 76—ab
LYMPHOMA, malignant, [Minot & Isaacs] ★1185, ★1265
LYMPHOSARCOMA in thorax, [Roubler] 1403—ab
mycosis fungoides, and leukemia, [Fraser] 376—ab
LYNCH, ALBERT, 1471—P
LYPODYSTROPHY, case, 1709

M

McKENDRICK, JOHN GRAY, death of, 585
McNICKLE & CO., Psycosulphene, 1150—P
MADURA FOOT: See Mycetoma
MAGNESIUM hydroxide for surgical tuberculosis, [Rhodes] 720—ab
sulphate controls convulsions, [Dorsett] 1393—ab
sulphate, effect on spinal fluid pressure, [Morrissey] 718—ab
sulphate, stimulates biliary flow, [McClure & others] 149—ab; [Ganit & Volborth] 1657—ab
MAIZE: See Corn
MAL PERFORANT: See Foot, ulcer
MALARIA, compulsory notification, Hungary, 886
control, [Nocht] 315—ab
control, Argentina, 1376
control, Belgian Congo, 1639
control, Ceylon, Sir Ronald Ross' campaign, 211
control in Montenegro and Albania, 1925
control, Italy, 1563
control, with quinine, [Falcioni] 1489—ab
diagnosis, epinephrine injections, [Mishtchenko] 1408—ab
diagnosis of uncured malaria, [Sinton] 1485—ab
diagnosis, Risques sign, [Villegas Ruiz] 519—ab
diagnosis, unusual symptomatology, [Ghosh] 624—ab
First International Malarial Congress, 141
hemoglobinuria in, [Ghiron] 915—ab
in New England, [McFudden] 1161—ab
in Venezuela, [de Bellard] 157—ab
industrial, 290
micro-organism opposing malaria, 1375
mountain, in Brazil, [Davis] 805—ab
plasmodium, [Sadi de Buen] 587—ab
plasmodium, buffered water for Romanowsky stain, [Bálint] 1173—ab
relapses in, prevented, [Sinton] 1485—ab
sequels, symmetrical gangrene, [Slaughter] ★1607
tertian, spring relapses in, [Patrick] 514—ab
Therapeutic: See also under Neurosyphilis; Paralysis, General
therapeutic, [Mras] 918—ab; [Donath & Hellig] 1737—ab
therapeutic, erythrocytosis in, [Rudolf & Ramsay] 514—ab
therapeutic, in asthma, [Mainini] 380—ab
therapeutic, in leukemia, [Lucherini] 586—ab; [Biñi] 915—ab
therapeutic, in multiple sclerosis, [Dreyfus & Hanau] 1588—ab
treatment, cinchonine vs. quinine, 568
treatment, mercurochrome, [Dundas & Telang] 1870—ab
treatment, quinidine vs. quinine, [Ascoli] 1666—ab
MALNUTRITION: See under Infants; Nutrition
MALPRACTICE, award under workmen's compensation, effect of, 224—M1
burden of proof on plaintiff, 1649—M1
burns, bichloride of mercury douche, 900—M1
burns, liability for, 1859—M1
cyst, removal of, proof of negligence, 578—M1
declaration, amendment of, 900—M1
end-results of tonsillectomy, [Harris] ★830
evidence, nonregistration not proof of, 975—M1
evidence of other physicians, 142—M1
fractures, degree of care required, 442—M1; 1157—M1
fractures, osteomyelitis as evidence of neglect, 142—M1
Liability: See also Hospitals
liability, joint, of attending physicians, 1649—M1
liability, joint, of physician and employer, 223—M1
liability of chiropractor, 975—M1
liability of medical school, 1791—M1
liability of roentgenologist, 1158—M1
liability of unlicensed practitioner, 975—M1
neglect in making diagnosis, 975—M1
personal injury aggravated by, 371—M1
physician's action against hospital for roentgen-ray injury, 1560
radium capsule, injury from, 1241—M1
roentgen rays, failure to use, 1859—M1
self-inflicted injury, liability, 299—M1
statute of limitations, 1935—M1
tuberculosis of hip, operation for, 975—M1
MALT TONIC, druggists may sell, 1141
MALTA FEVER vs. Bacillus abortus from bovine sources, [Smith] 1247—ab
case of, [Acken] ★1687
in France, 131
is bacterium abortus pathogenic for human being? [Huddleson] ★943
MAMMARY GLAND: See under Breast
MANDIBLE: See Jaw
MANOLA, 220
MANOLA COMPANY, 220
MARASMUS and protein hypersensitiveness, 754—E
in infants, carbohydrate metabolism in, [Tisdall & others] 445—ab
in infants, metabolism in, 873—E

MARASMUS—Continued
in infants with hysteresis, [Svehla & Saltz] 522—ab
MARBLE BONES DISEASE: See Osteosclerosis fragilis
MARGOSA OIL in cancer, [Chatterji] 232—ab
MARIENBAD, mineral springs at, 1849
MARRIAGE, annulment, concealment of epilepsy, 1720—MI
hereditary deafness and, 1635
license, examination for, vs. physicians, North Carolina, 760; 879
license, medical examination for, Brachet advocates, 1562
mixture of constitution in, [Kretschmer] 588—ab
official consultation centers, Germany, 1564
preparation of female sex organs, [Van de Velde] 1592—ab, 1738—ab
reaction to, [Mayer] 1491—ab
when is it permissible for syphilitic patients? 886
MARSHALL, L. L., 1929—P
MARTYRS: See also Roentgen Ray martyrs
heroism and scientific progress, 418—E; [Ravenel] 571—C
MASSAGE, importance of, 895—ab
of heart, recovery after, [Ball] 1869—ab
of prostate, [Stutzin] 1175—ab
MASTITIS: See Breast, inflammation
MASTOID surgery, balsam of Peru in, [Leshure] ★550
surgery, modified, [Odeneal] 904—ab
MATEFY TEST: See Tuberculosis, Pulmonary
MATERNAL mortality in hospitals of U. S., [Tottenham] 230—ab
health, committee on, 1918
mortality and Philipp's virulence test, [Pribram] 919—ab
mortality in Massachusetts, [Coffin & others] ★408
mortality, prevention, 663—ab
mortality, reporting, 421—E
mortality, unexpected, [Wilson & Glynn] 1321—ab
Welfare: See also Sheppard-Towner Act
welfare, in Russia, [Dworetzky] 1668—ab
MATERNITY: mothers beyond 35, 635; [Rennelts] 1591—ab
MAYGRIES, death of, 1562
MEAD'S Powdered Lactic Acid Milk (Cultured), 1131
Powdered Lactic Acid Milk (Acidified with Lactic Acid U. S. P.), 1131
MEASLES actuated by tuberculosis? [Beisken] 521—ab
anaphylaxis syndrome in, after burn, [Progulski & Redlich] 1731—ab
Caronia's cultures [Meyer] 658—ab; [Takaki] 1669—ab
Caronia's intracutaneous tests, [Hecht] 521—ab
contagiousness, [Redlich] 1173—ab
Dick test in, [Kleinschmidt] 316—ab
during vaccination, [Munk] 1955—ab
etiology, [Szirmai & Jacobovics] 1406—ab
German: See Rubella
immunization with blister fluid, [Modinos] 1486—ab
immunization with convalescent serum, [Kemp] 1956—ab
immunization with Caronia's cultures, [Meyer] 658—ab
immunization with Degkwitz' serum, [Kaupe] 1173—ab; [Degkwitz] 1174—ab; [Weise] 1174—ab; [Kochmann] 1875—ab
immunization with goat serum, [Tunnicliff & Hoyne] 906—ab
in London, 209; 428
in Palestine, 762
incubation period, temperature in, [Orel] 1407—ab
multiple cases of scarlet fever, infantile paralysis and, [Aycock & Eaton] 147—ab
splenomegaly in, [Bleyer] 977—ab; 1216—E; [Fort] 1567—C
therapeutic, in poliomyelitis, [Tronconi] 916—ab
toxin, [Ferry & Fisher] ★932; 955—E
vasomotors in, and Pirquet test, [Kollár] 1256—ab
MEASURES: See Dosage; Metric System
MEAT, bacteria in, [Brewer] 228—ab; [Ruth] ★325
inspection and public health, U. S., 208
MECKEL'S GANGLION, alcohol injection controls asthma, [Gundrum] 1244—ab
MEDALS: See Prizes
MEDIASTINUM, grave processes cause fatal abdominal syndromes, [Neumann] 659—ab
tumor, [Cokkalis] 1172—ab; [Braun] 1875—ab
tumor, thyroid treatment, [Bacalhau] 1666—ab
MEDICAL ATTENDANCE, employer, contract to provide, 442—MI
employer, duty to provide, 223—MI; 648—MI
parent, duty when divorced, 509—MI
prospective, cost of compensable, 715—MI
MEDICAL JURISPRUDENCE aspect of intracranial hemorrhage, [Sand] 1326—ab
course in, University of Naples, 1563
identifying criminal's gun, 874—E
legal responsibility in tonsillectomy, [Harris] ★830
MEDICAL LIBRARY ASSOCIATION, 1778
MEDICAL PRACTICE ACTS: See also Licensure; State Board
Alabama; indictment, necessary averments, 1792—MI
Alabama; indictment of chiropractor valid, 1719—MI
California; chiropractic, unlicensed practitioner, prosecution of, 1477—MI
Illinois; chiropractic may be regulated, 371—MI
Illinois; exceptions valid, 371—MI
Michigan; chiropractic, scope of examination determinable by legislature, 1800—MI
Michigan; examinations, scope and method determinable by legislature, 1800—MI
New Jersey; trial by jury, right denied, 1720—MI
New York, 1354—E; 1631; 1701—E
South Carolina; chiropractic, effect of former conviction, 1791—MI
South Carolina; chiropractic, evidence of licensure, 1791—MI
Washington; retroactive provisions, 1649—MI
Wisconsin, [Guyer] 1077—ab
MEDICAL REGISTER: See British Medical Register
MEDICAL RESERVE OFFICERS, training camps for, 1142
MEDICAL SERVICE, colonial, and British Medical Association, 564
colonial, Italian, 1710
European, [Pusey] ★1505
medical education and, [Pusey] ★1501
MEDICAL STUDENTS: See Students, Medical
MEDICATION, technic, [Fantus] ★34; ★114; ★195; ★274; ★347; ★415; ★483; ★551; ★623; ★687; ★750; ★840; ★950; ★1007; ★1129; ★1210; ★1284; ★1347; ★1438; ★1524; ★1623; ★1690; ★1767; ★1836; ★1909, ★1981
MEDICINE: See also Clinicians; Education, Medical; Fees; Physicians; Specialists; Surgery; etc.
"autostasis" and, [de Feyfer] 1326—ab
chemistry's contributions to, 1833—E
criticism of modern medicine, 1132—E
Cults: See Cults
group practice, for hospital patient, [Christian] ★993; [Auchinclose] ★995
History: See also Books; Hospitals; Incunabula and under names of diseases as Cancer; Syphilis
history; ancient prosthesis, [Putti] 915—ab
history; disease as regarded by ancients, 1275—ab
history; early experiment in blood clotting, [Sollmann & von Oettingen] ★898
history; early postmorten examinations, [Hektoen] ★576
history; great physicians, 421—E; 755—E
history; Institute of Art Healing, Italy, 1375
history; medical practice by hangman, [van Andel] 80—ab
history; peaks of, 755—E
Internal: See Internal Medicine
International Medical Union, 1562
Preventive: See Preventive Medicine
primitive, 1190—ab; 1454—ab
progress; 302; [Phillips] ★1259
progress, and heroism, 418—E; [Ravenel] 571—C
psychology in, 347—ab
science in everyday medicine, 1350—E
social, ethics and medical profession, 954—E
social, physician of future, 419—E
social, teaching viewpoint of, to student, [Royer] ★1571—MI
state; 278—E; [Pryor] 891—C; [Musgrave] 1644—ME; 1840—E
"Who's Who in American Medicine," 647; [Walter] 1—C
MEDULLA OBLONGATA, chloroform sensitization, for cocaine, [Bardier & Sillimunkès] 1323—ab
MEETINGS: See under list of Societies at end of letter M
MEGACOLON: See Colon
MEGA-ESOPHAGUS: See Esophagus
MEINICKE REACTION, practical value, [Muternilch & Compagnon] 451—ab
MELANCHOLIA vs. psychasthenic depression, [Breukink] 1326—ab
MELANODERMA and blood sulphur, [Loeper & others] 1401—ab, 1871—ab
fatty transformation of suprarenals with, [Loeper & Ollivier] 1486—ab
ovarian insufficiency, psychic disorders, and, [Bonilla] 1324—ab
MELANOMA of hard palate, [Patterson] 984—ab
MEMORY, hereditary, 1465
MENINGES hemorrhage, [Reid & Kennedy] 310—ab; [Munck] 1312—ab
hemorrhage, in cerebrospinal meningitis, [Challer & Schoen] 988—ab
hemorrhage, spontaneous, [Neal] ★6; [Bauzá] 1950—ab
hemorrhage, spontaneous, herpes zoster in, [Adie] 911—ab
permeability, [Cestan & others] 1488—ab
simple wounds, [L'Heureux & Ingeirans] 1492—ab
tumors, diffuse, [Boyd] 651—ab
MENINGIOMA, [Towne] 1579—ab
MENINGITIS: See also Pachymeningitis
[Armand Ugón] 1950—ab
MENINGITIS—Continued
aseptic, and dementia praecox, [Barr & Barry] 1163—ab
aseptic epidemic, [Wallgren] 1256—ab
carcinomatosa, [Moorhead & Wigham] 1662—ab
cerebrospinal fluid uric acid in, [Baumritter] 154—ab
juvenile, [Schlesinger] 1809—ab
meningococcus, [James] 1485—ab
meningococcus, advanced, combined ventricular, cisternal and lumbar punctures for, [Peet] ★1818
meningococcus, in infant, [Sturtevant] ★1436; [de Cardenas y Pastor] 1587—ab
meningococcus, with hemorrhage, [Challer & Schoen] 988—ab
meningococcus, with relapses, [Zoeller] 155—ab
nontuberculous, spider-web clots in, [Post] 990—ab
staphylococcus, secondary, [Moise] 1660—ab
syphilitic, [Hudelo & Mouzon] 809—ab
syphilitic, acute, [Mazzoni] 1666—ab
syphilitic, hyperpyrexia from, [Monaterl] 1253—ab
syphilitic meningoradiculitis, [Hudelo & Mouzon] 808—ab
tuberculous, hiccup in, [Langeron & others] 1872—ab
tuberculous, in infant, [Muntendam] 1326—ab
tuberculous, recovery from, [McMahon] 1653—ab
tuberculous, statistics, [Halliday] 1585—ab
tuberculous, tonic neck reflexes in, [Wechsler & Brock] 447—ab
tuberculous, treatment, [Klinke] 1256—ab
MENINGOCOCCUS, antimeningococcus serum, [Challer & Schoen] 988—ab
of South America classified, [Claveaus] 989—ab
MENINGONEURITIS of eighth cranial pair, [Ramadier] 1169—ab
MENOPAUSE, artificial, effect of hysterectomy, [Kraul] 1668—ab
climacteric arthritis complicating, 392—ab
corpus luteum extract in, 1092
ovarian follicular hormone in, [Pratt & Allen] ★1964
MENORRHAGIA: See Uterus, hemorrhage
MENSTRUATION blood, female sex hormone in, [Frank & Goldberger] ★1688
complication, chlorosis, [Zadik] 78—ab
disorders, endocrine treatment, [Donovan] 307—ab
effect on psychoses, [Repond] 913—ab
herpes in, [Blumm] 1492—ab
in hay-fever, [Joachimsthal] 1407—ab
of students, 1392
ovarian follicular hormone in, [Pratt & Allen] ★1964
poisoning question, [Schubert & Studing] 1255—ab
precocious, [Wheelon] 68—ab
premenstrual rise in temperature in tuberculosis, 1152
temperature and allergy in, [Gáll] 991—ab
MENTAL DEFECTIVES, plantar lines in, [Brushfield] 983—ab
Association for Study of Feebleminded, 1634
sella turcica in, [Gordon & Bell] 1942—ab
sterilization, 564; 1229; 884
MENTAL DISEASE: See also Dementia Praecox; Insanity; Psychoses
among negroes, 397—ab
basal metabolism in, [Bowman & Fry] 447—ab
biochemical studies in, [McIntyre & Norris] 581—ab
epidemic encephalitis and, [Winther] 386—ab
headache and, [Dickerson] 1583—ab
heart and, [van Lier] 666—ab
Hospitals: See Hospitals, psychiatric
in spirochetal jaundice, [Hesnard] 1871—ab
Italian League for Prevention of Nervous and Mental Disease, 1563
Nurses for: See Nurses
toxemias in, [McIntyre & others] 1654—ab
MENTAL-HYGIENE and prophylaxis, [Redlet] 988—ab
MERCURIC CHLORIDE: See Mercury
MERCUROCHROME—220, [Trout] 301—ab
effect on blood germicidal properties, [Walker] 1482—ab
in acute bacterial infections, [Dudgeon] 985—ab
in chronic septic endocarditis, [Falconer] 1168—ab
in erysipelas, [Eldridge] 446—ab
in gonorrheal endocervicitis, [Brady] 513—ab
in gonorrheal urethritis, [Potter & Redewill] 1867—ab
in infectious skin diseases, [Young & others] 1734—ab
in malaria, [Dundas & Telang] 1876—ab
in pernicious anemia, [McLaughlin] 1317—ab
in preparing external genitalia for delivery, [Lankford] 1393—ab
in puerperal infection, [Robinson] 1666—ab
in septicemia, [Stringer] 1163—ab
in sterilizing urinary tract, [Young] 983—ab
in typhoid, [Koc] 1390—ab
stains, removal of, 1642
value, [Todd] 231—ab; [Helmholz & Field] 1942—ab

MERCURY and bismuth, [Phillipson] 1734—ab
combining it with neo-arsphenamine, 572
dyestuffs; bacterial chemotherapy, [Ralziss & others] 907—ab
mercuric chloride, effects of, 1153
mercuric chloride poisoning, acute, [Kohn] 1480—ab
mercuric chloride poisoning, heart in, 1289—E
mercuric chloride poisoning, sodium thiosulphate in, [Rens & Massaro] 71—ab
poisoning, bismuth in, [Landau & others] 452—ab
poisoning from mercurial ointment, [Hamburger] 992—ab
poisoning, hypochloremia in, [Helm] 156—ab
salivation after, 1090
MESAORTITIS: See Aortitis
MESENTERY in visceral disorders, 942—ab
mesenteriolum in appendicitis, [Rubaschow] 79—ab
pressure on duodenum, [Robertson] 1869—ab
rôle in visceral disorders, [Gray] 1329—ab
teratoblastoma, [Cannon & O'Kelly] 379—ab
METABOLISM: See also under Carbohydrate; Cholesterol; Metabolism, Basal; Protein, etc.
abdominal spasms and, [Alessandrini] 1171—ab
calcium therapy and, [Briggs] 1654—ab
dijodtyrosin and, [Beumer & Kornhuber] 159—ab
disturbances, peripheral, from fluorescein sodium, [Frey] 1173—ab
endocrines effect on, [Cannon] 1159—ab
in pylorospasm, [Vollmer & Serebrijski] 658—ab, 1877—ab
of marantic infants, 873—E
of nerve fiber, 41—E
research, Wiesbaden's new institute for, 1851
tester effect on, [Bugee & Simond] 1315—ab
METABOLISM, BASAL, [Knipping] 317—ab; 1876—ab
after pneumonia, [Shick & others] 1243—ab
disturbances, peripheral, [Frey] 1173—ab
during fasting, [Adlercreutz] 1258-•ab
effect of epinephrine, atropine and pilocarpine on, [Papilian & Bendescu] 1323—ab
heredity and obesity, 554—E
in acromegaly, [Cestan & others] 1489—ab
in children, [Wilson & others] 1479—ab
in children in Winnipeg, [Linear] 377—ab
in dancing, [Grönholm & others] 386—ab
in goiter, [Meyer] 237—ab; [Eckstein & Mommer] 659—ab
in mental disease, [Bowman & Fry] 447—ab
in organic heart disease, [Lev & Hamburger] 650—ab
in postencephalitic syndromes, [Naccarati] 1581—ab
in stomach cancer, [Bonorino Udaondo & others] 157—ab
in the tropics, [Mukherjee] 1384—C
lowered in total anuria, [Mayers] •1198
rate, iodine lowers, [Fitzgerald] 1394—ab
registering apparatus for, [Dethloff] 454—ab
respiratory, [Pollitzer & Stolz] 1256—ab
respiratory, and blood sugar time curves, [Rabinowitch] 377—ab
respiratory, and ketosis in children, [Wilson & others] 1479—ab
respiratory, in diabetes, [Richardson & Levine] 448—ab
stimulants, [Schoen & Kaubisch] 1254—ab
studies, [Stoner] 1098—ab
ultraviolet rays effect on, [Mason & Mason] 1862—ab
vitamin B and "vitality," 1987—E
METALS, colloidal, in relation to immunization, [Pacheco] 1734—ab
biochemical affinity, [Schamberg & Brown] 1866—ab
salts in pulmonary tuberculosis, [Lunde] 1176—ab
salts therapy, [Walbum] 1812—ab
METASTASES: See Cancer; Carbuncle; Tumor
METHEMOGLOBIN: See Hemoglobin
METHENAMINE treatment of postoperative retention of urine, [Hjelt] 386—ab
treatment of lancinating pains, [Stein] 1809—ab
value, [Helmholz & Field] 1942—ab
METHYLENE azur stain for nerve cells, [Proescher & Arkush] 1098—ab
blue, effect on body temperature, [Stammers] 1399—ab
METREURYNTER, Baumm's, [Sztehlo] 1407—ab
METRIC SYSTEM, English, 422—E; [Hornback] 644—C; [Burnett] 892—C; [Fantus] •1347
METRORRHAGIA: See Uterus hemorrhage
MICROBIOLOGY: See Bacteriology
MIDWIVES, equipment bags for, 205
MIGRAINE, ophthalmic, and scotoma, [Pinard] 725
ophthalmic with tetany, [Parhon & Werner] 987—ab
with abdominal equivalent, [Biltzsten & Brams] •675
MIKULICZ DISEASE in child with sarcoma and leukemia, [Fernández & others] 657—ab
MILBANK MEMORIAL FUND, 44
MILITARY SANITARY SCHOOL reopened, Florence, 497
MILK: See also Casein; Infants, feeding acidified, 1698—E
MILK—Continued
acidified, in infant feeding, [Johnson] 652—ab; 1698—E
allergy, 803
allergy, and marasmus, 754—E
allergy to human milk, [Bytsch] 1101—ab
antiscurvy value, [Supplee & Dow] 977—ab; [Reyher] 1405—ab
bacteria, mediums for estimating, [Norton & Seymour] 978—ab
Brucella abortus in, [Wilson & Nutt] 2003—ab
buttermilk, concentrated, [Weil] 2006—ab
dispensary for children, Cuba, 1558
does it induce anatoxin production? [Joannidès] 451—ab
Dried: See also Milk, human
dried, antiscorbutic properties, [Supplee & Dow] 977—ab
dried, for children, [Czerny] 1491—ab
dried, irradiated, [György] 1953—ab
dried or condensed, in infant feeding, 1091
feeding, effect on rabbits, [Brouwer] 1492—ab
Goat's Milk Anemia: See Anemia
goat's, tubercle bacilli in, [Brouwer] 1592—ab
human, allergy, [Bytsch] 1101—ab
human, calcium in, [Stransky] 1407—ab
human, collection of, 878
human, dried, 352—E; [Emerson] 445—ab; [Emerson & Smith] 977—ab
human, effect of smoking on, 1787
human, phenobarbital in, [Frensdorf] 1591—ab
human, refraction index, [Solomon & Shohl] 1243—ab
human, vitamin C in, [Frank] 1953—ab
human, vitamin content, [Meyer & Nassau] 384—ab
inspection of imports, England, 1225
Mead's Powdered Lactic Acid Milk (Acidified with Lactic Acid U. S. P.), 1131
Mead's Powdered Lactic Acid Milk (Cultured), 1131
pasteurization vs. tubercle bacilli in, 554—E; 573; [White] 1099—ab
pasteurized vs. raw, vitamin C content, [Van Leersum] 1492—ab
poisonous, 51
regulations, Belgium, 1924
regulations for insuring clean milk, England, 1225
regulations pertaining to sale, Netherlands, 1086
sugar determination in, [Bruhns] 1405—ab
supply, improved, Netherlands, 1375
Therapy: See Protein Therapy
Tubercle Bacilli in: See also Milk, pasteurization
tubercle bacilli in, [Wilson & Nutt] 2003—ab; 1996
ultraviolet irradiation of, in rickets, [Mackay & Shaw] 732—ab; 870—E; [György] 990—ab; 1953—ab; [Steenbock & others] 1246—ab; [Hottinger] 1325—ab
MILK FEVER, [Dyroff] 318—ab
MILLER, BRUCE, Hoxide cancer "cure," 55—P
MILLER, WILLIAM H., convicted director of education now seeks higher office, 1135—E
MINERAL WATERS, government, Belgium, 1374
springs at Marienbad, 1849
treatment in high blood pressure, [Cottet] 1872—ab
MINERALS: See also Copper; Iron; etc.
metabolism, [Oppenheimer] 991—ab
metabolism and white phosphorus, [Bernhardt & Rabl] 237—ab
transmineralization for tuberculosis, [Sauerbruch] 810—ab
MINERS, tuberculosis mortality, Ruhr region, 1087
MINES, coal, accidents in, 962; 1633; 1846
metal, accidents in, 691
sanitation in mining towns, Alabama, 1555
MISSION, physician founds, 492
MISSIONARIES, MEDICAL, number, 427
MISSOURI, protecting public in, 1915—E
license revoked on testimony by disposition, 1914—E
MITOCHONDRIA, nature of, [Horning] 583—ab
MITRAL VALVE stenosis, surgery for, [Jarotzky] 729—ab; [Cutler] 905—ab
stenosis from rheumatism, [Merklen & Schneider] 1948—ab
stenosis in women, 1690—ab
MIXED RAGWEED CONCENTRATED POLLEN EXTRACT—Swan-Myers, 277
MIXTURES, shake, [Fantus] •1623
MOHAIR, allergic dermatitis due to, [Rowe & Rogers] 306—ab
MOLASSES, bathing extremity with, in arthritis, [Chlumský] 318—ab
MOLINA, S., death of, 1377
MOLLE, irritation following, 1234; 1568
MOLUCCAS, [Kopstein] 1591—ab
MONGOLISM: See under Idiocy
MONILIASIS, bronchial, [Nasso] 726—ab
MONKEYS: See also Apes
blood, special factors in, [Landsteiner & Miller] 982—ab
blood vs. human blood, [Landsteiner & Miller] 982—ab
MONONUCLEOSIS: See Leukocytosis
MONOPLEGIA: See Paralysis
MOONSHINE "hooch," "home brew" and copper, 1552—E
MORBIDITY: See under Vital Statistics
MORELLE, Professor, death of, 1229
MORPHINE addiction, [Wimmer] 160—ab
effect on diuresis, [Porru] 2005—ab
hunger and smooth muscle reaction, [Ludlum & McDonald] •835
medical prescription not private document, 886
precautions to be observed in administering, 1226
severe sentence on physician for supplying, contrary to regulations, England, 1561
MORPHY, H. T., 56—P
MORTALITY STATISTICS: See Cancer mortality; Infants, mortality; Maternal mortality; Vital Statistics, etc.
MOSQUITOES: See also Anopheles
bite, claim for, under compensation act, England, 1227
relation to man, 714
transmit dengue fever, 418—E
MOTION PICTURES: See Films
MOUSSOUS, Professor, death of, 1227
MOUTH, administration by, [Fantus] •840
cancer, [Bloodgood] 305—ab
fatal explosion in, during operation, 129
medication, [Fantus] •623, •687
syphilis, [Piaut] 1667—ab
warts, [Davis] 1581—ab
MOUTH-WASH, [Fantus] •624
MOVING PICTURES: See Films
MUCOR corymbifer, infection of lungs, [Freed & Webb] 229—ab
MUCOUS MEMBRANES, local applications to, [Fantus] •483
oral, catalase activity of, [Sollmann & Howard] 151—ab
MULE SPINNERS' cancer, 1780
MUMPS: See Parotitis
MURDERS in 1925 in United States, 1634
MURMUR: See Heart murmur
MUSCLES, abductor paralysis of hip, [Colonna] 2002—ab
Atrophy: See Atrophy
bacteria in, [Reith] •325
chronaxia, and nerve conduction, [Lapicque & Yell] 987—ab
contractions, Dupuytren's, hereditary, [Apert] 380—ab
control, unusual, 431
creatine vs. tonus, [Schwartz & Oschmann] 988—ab
depression, regional, and stomach, [Bársony] 237—ab
Dystrophy: See Dystrophy
electromyograms and fatigue, [Laubry & others] 1664—ab
erosion, infectious, [Wolfson & Bryan] 1725—ab
function, and lactic acid, 1217—E
gracilis, transplanted for urine incontinence, [Deming] •822
hardness vs. exercise, [Opitz & Isbert] 990—ab
hematoma in rectus abdominis, [Hall] 367—C
hemoglobin, 1986—E
injuries in fractures, [Lewis] 1380—ab
innervation, [Forbes & Cobb] •1884; [Davis & Kanavel] •1890
insulin complement in, [Lundsgaard & Holböll] 988—ab
oxygen consumption, [Harding] 2003—ab
rectus abdominis, hematoma, [Hall] 367—C
rectus transplanted in hernia operation, [Nuttall] 984—ab
sartorius, multiple myoma, [Meade] 1485—ab
smooth, reaction, and morphine hunger, [Ludlum & McDonald] •835
tonus and tendon reflex, [Langelaan] 913—ab
tonus, components, [Davis & Kanavel] •1891
tonus vs. creatine, [Schwartz & Oschmann] 988—ab
transplantation for urine incontinence, [Deming] •822
transplanted in hernia operation, [Nuttall] 984—ab
tremors, recording, [Beall] 477—ab
tumor, [Meade] 1485—ab
MUSHROOM poisoning, [Steinbrinck & Münch] 1407—ab
MUSTARD PLASTER, [Fantus] •195
MYCETOMA in native American, [Gammel & others] 716—ab
MYCOSIS: See also Actinomycoses; Otomycosis; Tonsillomycoses; etc.
[Burgess] 376—ab; [Rademaker] 1592—ab
fungoides; leukemia; lymphosarcoma, [Fraser] 376—ab
of fingers, 59
MYELITIS, chickenpox, [Krabbe] 1165—ab
compression, from extradural spinal hydatid cyst, [Hines] 1482—ab
MYELOMA, endothelial, [Connor] 1798—ab
treatment, [Hance] 1945—ab
MYIASIS, cutaneous, [Comby] 912—ab
MYOCARDITIS, focal, with paroxysmal tachycardia, [Major & Wahl] •1125
syphilitic, [Brown & Pearce] 1941—ab
MYOCARDIUM: See Heart Muscle
MYOCLONIA, [Portu Pereyra & Estapé] 1950—ab
MYOMA, multiple, [Meade] 1485—ab
MYOPIA, pathogenesis and treatment, [Müller] 1669—ab

MYOPIA—Continued
preventive treatment, [Terrien] 1488—ab
recording of, 297
tuberculosis and, [Hirsch] 590—ab
MYOSITIS, acidosis treatment, [Fröhlich] 1492—ab
MYSTICISM, [Paulsen] *1621
MYXEDEMA, electrocardiogram in, [Thacher & White] 1159—ab

N

NAILS, finger, white spots on, 505
NAPHTHA, protecting hands against, 1643
NAPHTHALENE cataract, [Michail & Cancea] 1665—ab
NAPOLEON'S narcolepsy, [Salmon] 382—ab
NARCOLEPSY: See Sleep
NARCOTICS: See also Harrison Narcotic Act, and under names of drugs
action vs. blood calcium and phosphorus, [Hisinger-Jägerskiöld] 166—ab
addiction, 1707
law, Switzerland, 289; 799
osteopaths want to prescribe, 1920
sale of, penalty not excessive, 1721—M
tax stamp must be posted, 1643
uniform state narcotic drug act, 371
NASAL GANGLION: See Meckel's Ganglion
NATIONAL ACADEMY OF MEDICINE, odontologist in, 211
NATIONAL ASSOCIATION FOR STUDY OF EPILEPSY, 1778
NATIONAL BOARD OF MEDICAL EXAMINERS, 493; 1141; 1549
NATIONAL CANCER RESEARCH INSTITUTE, 55—P
NATIONAL COMMITTEE FOR PREVENTION OF BLINDNESS, 127
change of address, 494
sight saving classes, 1371
NATIONAL HEALTH SERVICE, 502—P
NATIONAL RESEARCH ENDOWMENT, declaration of public men and scientists, 494
NATIONAL UNIVERSITY OF SCIENCE OF CHICAGO sells fake diplomas in Japan, 498
NAUHEIM BATHS: See Baths
NAUSEA: See also Seasickness; Vomiting
irradiation, corpus luteum prevents, [Lafferty] & Phillips] 304—ab
NAVY, U. S., adopts Kahn test as standard, 210
NAZARENE MOVEMENT, [Paulsen] *1620
NEAR EAST RELIEF, annual meeting, 759
NEARSIGHTEDNESS: See Myopia
NECK tumor, [Halliday] 1165—ab
NECROPSIES: See also Cadaver
biometric studies in pathology, [Pearl & Bacon] 1655—ab
early, by Europeans in America, [Hektoen] *576
fatal septicemia from performing, 964; 1636
insurance, laches in demand, 1391—MI
percentage of, to number of deaths in general hospitals, [Christian] *1500, (correction) 1921; [Keller & others] 1785—C
physician's bequest of his body for, 1084
NECROSIS: See under names of organs as Bone; Corpus Luteum; Heart muscle; Jaw; etc.
NEGROES, mental disease among, 397—ab
NELSON ELIXIR OF ARARAS not accepted for N. N. R., 1383—P
NEO-ARSPHENAMINE: See also Syphilis, treatment
combining mercury with, 572
toxic effects, 966
treatment of fetid respiratory process, [Castex & others] 1251—ab
treatment of frambesia in East Indies, 1375
treatment of intestinal spirochetosis, [Sáenz] 916—ab
treatment of multiple sclerosis, [Sauer] 1173—ab
treatment, psoriasis after, [Van der Hoog] 1670—ab
NEO-GLUCOSE, [Lundsgaard & others] 1812—ab
NEOTREPOL: See also Bismuth
not acceptable for N. N. R., 135—P
NEPHRECTOMY, Autonephrectomy: See Autonephrectomy
growth of remaining kidney after, [Arataki] 716—ab
in infant, [Morson] 1319—ab
unilateral, with extrarenal tuberculosis, [Condamin] 1487—ab
NEPHRITIS: See also Paranephritis
albuminuria vs. protein requirement in, [Peters & Bulger] 1480—ab
ammonia and acid excretion in, [Van Slyke & others] 1580—ab
ascaris, [Africa & Mendoza-Guazon] 1727—ab
blood phosphorus and calcium in, [Schmitz & others] 1481—ab
chloride excretion in, [de Wesselow] 73—ab
chronic, [Foster] 1652—ab
chronic, acidosis in, [Bulger & others] 1580—ab
chronic, without hypertension, [Bonchut & Ravault] 914—ab
crystalline proteins of, [Welker & others] *1333; [Morse] 1714—C
edema in, 952—E
edema in, disappears after erysipelas attack, [Pinchin] 232—ab

NEPHRITIS—Continued
etiology, cystin, [Lignac] 318—ab
experimental, from roentgen ray, [O'Hare & others] 718—ab
glomerulo-nephritis, acute, [Dyke] 232—ab
hemorrhagic, [Christian] 1307—C
hemorrhagic, acute, after appendicitis, [Harbitz] 238—ab
hemorrhagic, acute, in children, [Wyllie & Moncrieff] 911—ab; [Paterson & Wyllie] 1869—ab
hemorrhagic, benign and curable form, [Baehr] *1001
in children, [Clausen] 980—ab; [Wyllie & Moncrieff] 911—ab; [Southby & Stanton] 1250—ab
in pregnancy, [Volhard & Fahr] 1660—ab
nutrition and, 1626—E
parenchymatous, acute in children, [Paterson & Wyllie] 1869—ab
protein requirement vs. albuminuria in, [Peters & Bulger] 1480—ab
scarlet fever, [Koch] 237—ab; [Nastasi] 726—ab; [Percival & Stewart] 1166—ab; [Joe & Williamson] 1166—ab
Syphilitic: See Kidney syphilis
treatment, [Volhard] 728—ab
tumor or nephritis? [Stutzin] 159—ab
NEPHROPEXY: See Kidney, floating
NEPHROPYELITIS: See Pyelonephritis
NEPHROSARCOMA, embryonal, in infant, radium treatment, [Foster & Mendilaharzu] 809—ab
NEPHROSIS: See Kidney disease
NEPHROSTOMY, preliminary to ureterorectoneostomy, [Hinman] *921
NERVE: See also Neuralgia; Neuroglia; Neuritis; Neuron; Paralysis
acoustic, meningoneuritis, [Ramadier] 1169—ab
alcoholic injections into, relieves pain, [Swetlow] 1796—ab
anastomosis, experimental, [Bialock & Crowe] 904—ab
Blocking: See under Anesthesia; Nerve, popliteal; Nerve, splanchnic; etc.
carotid or vagus pressure experiment? [Ortner] 1876—ab
cells, methylene azur stain for, [Proescher & Arkush] ab—1098
centers, third element in, [Del Rio Hortega] 1864—ab
conduction and chronaxia, [Lapicque & Veil] 987—ab
excitability, lecture of Professor Gayda, 704
fiber metabolism, 41—E
glossopharyngeal, tic douloureux of, [Miller] 1582—ab
iliohypogastric, vs. herniotomy, [Andrews] 1096—ab
injuries in fractures, [Lewis] 1380—ab
irritation and aortic lesions, [Shaw] 986—ab
mechanism and edema, [Hanzlik] 895—ab
median, lesions, demonstration of, [Crile] 1659—ab
of arteries, [Hirsch] 236—ab
optic, tabetic atrophy of, [Behr] 1491—ab
optic, tumors extirpated with conservation of eye, [Rollet] 154—ab
peripheral, neuro-arthropathies, [Phillips & Rosenheck] *169
phrenic evulsion in pulmonary tuberculosis, [Davies] 249—ab
phrenic injury in new-born, [Friedman & Chamberlain] *934
phrenic sign in appendicitis, [Iliescu] 986—ab
Phrenicotomy: See also Tuberculosis, Pulmonary
phrenicotomy, [Sergent & others] 808—ab; [Dufour] 1168—ab; [Moure & others] 1169—ab
phrenicotomy in pulmonary disease, [Maurer] 1170—ab
popliteal, blocking, for flatfoot, [Meyer] 587—ab
roots, syphilitic meningitis, [Hudelo & Mouzon] 808—ab
sacral, section, vs. bladder, [Potter] 1248—ab
Sciatic: See also Sciatica
sciatic, injection of, as substitute for femoral periarterial sympathectomy, [Taylor & Rice] *191
splanchnic, blocking, [Kappis] 79—ab
superior maxillary, blocking, [Ubaldo Carrea] 1874—ab
surgery, lipiodol in, [Maclaire] 579—ab
ulnar, traumatic neuritis of, treatment, [Platt] 1165—ab
vagotonia, and digestion hemoclastic test, [Widal & Abrami] 516—ab
vagotonia vs. protein cleavage in burns, [Eden & Herrmann] 1172—ab
vagus, action in hyperglycemia, [Papilian & Funariu] 1323—ab
vagus or carotid pressure experiment? [Ortner] 1876—ab
vagus, rôle in gastric ulcer, [Locper & Marchal] 725—ab
vagus section in asthma, [Kern] 582—ab
vagus stimulation effect on stomach, [M'Crea & others] 223—ab
vagus tonus and excitability vs. pancreas, [Garrelon & others] 451—ab
NERVOUS SYSTEM, cancer, metastatic miliary, [Lewis] 375—ab
Disease: See also Epilepsy; Mental Disease; Neuritis; Neurosis; etc.

NERVOUS SYSTEM—Continued
disease, peculiar familial, [Roussy & Lévy] 1873—ab
enteric, vs. gastro-intestinal motility, 1838—E
fat in, [Berberich] 1173—ab
of plants, 1847
research methods, [De Nó] 386—ab
NERVOUS SYSTEM, SYMPATHETIC: See also Ganglion; Reflex; etc.
action of certain drugs on, [Bergström] 234—ab
alopecia areata and, [Herman] 1665—ab
anatomy vs. ramisection and sympathectomy, [Ranson] *1886
carbohydrate metabolism and, [Mirtovsky] 1326—ab
comparative studies, [Pletneff] 1738—ab
eczema and, [Castex & Camuzer] 76—ab
in syphilis, [Vasilieva] 1955—ab
parasympathetic, vs. certain drugs, [Bergström] 234—ab
peripheral vascular system and, [Mosser & Taylor] 1483—ab
physiology vs. surgical problems, [Forbes & Cobb] *1884
psoriasis and, [Carillon] 1733—ab
regulation of skin and liver, [Müller] 728—ab
Surgery: See Sympathectomy
tonus, and morphine hunger, [Ludlum & McDonald] *835
tonus, and protein shock, [Garrelon & Santenoise] 1252—ab
tonus, in hyperthyrosis, [Krause] 1100—ab
NEURALGIA, glossopharyngeal, [Miller] 1582—ab
in sinusitis, [Béhague & Dufourmentel] 586—ab
pelvic, in gynecology, [Hauch] 160—ab
trifacial, trigeminal root differential section in, [Stookey] 1478—ab
trigeminal, alcohol injection of nasal ganglion in, [McKenzie] 225—ab; [Ruskin] 512—ab; [Sachs] 1318—ab; [Mills] 1329—ab
trigeminal; cornea shield, [Adson & Schroeder] *1835
trigeminal, lead poisoning simulating, [Foshay] *1688
trigeminal, roentgenotherapy, [Walter & Lax] 1876—ab
trigeminal, surgery for, [McKenzie] 225—ab; [Sachs] 1318—ab; [Christophe] 1871—ab
NEURINOMAS, German Surgical Society discusses, 1926
NEURITIS: See also Meningoneuritis
acute retrobulbar, [Heckford] 916—ab
lingual, 1374
optic, and multiple sclerosis, [Friedinger] 156—ab
polyneuritis after wound diphtheria, [Reinhold] 383—ab
polyneuritis, pseudotabetic, in children, [Navarro] 727—ab
polyneuritis, spinal fluid albumin in, [Thomas & Rendu] 586—ab
traumatic, treatment, [Platt] 1165—ab
NEURO-ARTHROPATHY from peripheral nerve origin, [Phillips & Rosenheck] *169
NEUROFIBROMATOSIS: See Recklinghausen's disease
NEUROGLIA, pathologic, [Bok] 992—ab
NEUROGLIOMA, cystic, of cerebellum, [Perret] 1805—ab
NEUROLOGY, Duchenne's contributions to, [Guillain] 314—ab
Italian congress on, 1710
NEUROMAS cause of pains with cystic ovaries, [Roux] 1587—ab
NEURON block for relief of pain, [Swetlow] 1652—ab
NEUROSES and colitis, [Savignac] 517—ab
in relation to natural endowments, 640
of aviators, [Meier-Müller] 1733—ab
shell shock, 1786
three theses on, [Loewenthal] 810—ab
traumatic, [Stier] 383—ab; [Bonhoeffer] 1103—ab
urinary phenomena in, [Laignel-Lavastine & Cornelius] 75—ab
NEUROSYPHILIS, auditory meningoneuritis manifestation of, [Ramadier] 1169—ab
diabetes insipidus from, [Babonneix & Lhermitte] 808—ab
diagnosis, [Bunker] *1815
familial, [Duncan] 985—ab; [Guillain & others] 1251—ab
neurorelapses in, 430
Pandy reaction in, [Starobinsky & Kaufmann] 1736—ab
status epilepticus in, [Stuchlik] 552—ab
treatment, [Buzzard] 1321—ab; [Bunker] *1815
treatment, by malaria, [O'Leary & others] 1480—ab; 1710
with xanthochromia of spinal fluid, [Guillain & others] 724—ab
NEUROTOXIN produced by tissue freezing, [Speransky] 1804—ab
NEUROTROPISM virus of syphilis, [Sicard] 725—ab
NEUTRAL RED TEST, ROFFO'S: See Cancer, serodiagnosis
NEUTROPHILS and protein injection, [Hirsch] 1954—ab
NEVUS: See also Angioma
carcinoma, [González] 1405—ab
carcinoma of conjunctiva, [Valude] 154—ab

NEVUS—Continued
etiology, [Melrowsky] 1667—ab
treatment, [Roy] 512—ab
NEW THOUGHT, religious healing, [Paulsen] *1522
NEW YORK'S new medical practice act, 1354
—E; 1631; 1701—E
health needs of, 1915—E
NEWSPAPERS, General Medical Council and, England 49; 130; 1373; 1464
health education through, [Edie] 66—ab
publicity regarding "adjustment cures" at Cornell University, [Kerr] 1855—C
NICOTINE: See also Tobacco
effect on epinephrine output, [Sugawara] 1168—ab
injections into celiac ganglion in intestinal paralysis, [Rosenstein] 1809—ab
poisoning in infant from breast milk, 1787
treatment of encephalitic tremor, [Herrmann & Wolke] 316—ab
NIGHT-BLINDNESS: See Hemeralopia
NIPPLES, fissured, ultraviolet rays for, [Chatin] 1101—ab
shields, lead poisoning in nursing infants from, [Wilcox & Caffey] *1514
NITROBENZENES are poisonous, [Renshaw & Ashcroft] 1162—ab
NITROGEN balance vs. proteins, [Rose & MacLeod] 1247—ab
colorimeter microtest for, [Grifols Roig & Hellmuth Hempel] 315—ab
metabolism and spleen, [Marino] 1489—ab
metabolism and sulphur metabolism, [Wilson] 1398—ab
metabolism in fever, [Beck] 1953—ab
metabolism vs. vitamin A deficiency, [Morgan & Osborn] 1246—ab
NOISE on city streets, measures to combat, 52
NOSE, [Hotbauer] 1256—ab
accessory sinuses, roentgenoscopy, [Wherry] 904—ab
diphtheria, chronic, [Abraham] 454—ab
hemorrhage from sodium salicylate, [Rodella] 235—ab
hemorrhage, habitual, [Gallusser] 1666—ab
in pneumonia, [Felty & Heatley] *1195
medication, technic, [Fantus] *485
paranasal sinuses, cancer, radiotherapy, [Quick] 1943—ab
reconstruction, Argentine method, [Ivanissevich] 586—ab
streptococcic infection, treatment, [Montgomery & Culver] 652—ab
NOSTRUMS and quackery, 362
abolition of tax, Japan, 1565
NOVASUROL: See Heart, edema; Obesity, treatment
NOVELISTS, scientific predictions of, [Bragman] 58—C
NUMERUS CLAUSUS in Hungary, 886
in Roumanian universities, 1782
NURSES, morbidity and mortality, Italy, 1994
psychiatric, 1376
public health, 1271—ab; 1511—ab
status of, Buenos Aires, 565
trained, 1841—E
trained, A. M. A. resolution on, 1296; 1355
U. S. Army and Navy, retirement bill, 635; 1371; 1635
working hours of, Netherlands, 1375
NURSING, high cost of, 1223
home and British Medical Association, 1636
NUT FLOUR, Hoffman's Non-Nutritive, 842
NUTRITION: See also Diet; Food; Vitamins
differentiating, "food" and "nutrition," 418—E; [Emerson] 708—C
disturbances, blood in, [Reschid] 1951—ab
disturbances, blood transfusion for, [Slooff] 1955—ab
disturbances, pancreas histology in, [Dreifuss] 658—ab
food and, 534—ab
Malnutrition: See also Infants
malnutrition, insulin in, [Fischer & Rogatz] 1479—ab
nephritis and, 1626—E
nutritional outlook, 418—E
orange juice as nutrient, 873—E

O

OBESITY and heredity, 554—E
fractional test diuresis in, [Violle] 155—ab
genesis, [Lauter] 1588—ab
in children, [Marañon] 1404—ab
treatment, [Leven] 381—ab
treatment, diet, [Weller] 727—ab; [Evans] 981—ab
treatment, novasurol, [Bayor] 1669—ab
treatment, Wilson process, 1701—E
OBSTETRICS: See also Anesthesia; Labor; Pregnancy; Puerperium
congress, twenty-fourth, 916—ab; 1146
cost of being born, 355
oscillometer in, [Balard] 1402—ab
practice, accident and unfitness in, [Sellheim] 660—ab
teaching, roentgen ray in, [Mitchell & MacCharles] 447—ab
OCCULTISM: See Spiritualism
ODONTOLOGY, Spanish congress on, 212
odontologist in National Academy of Medicine, 211
ODOR, emanating from the sick, 1850
O'HARA'S DISEASE vs. tularemia, [Francis & Moore] *1329
OIL in capsules, [Fantus] *950
Iodized: See Iodized Oil
of Wintergreen: See Wintergreen
pollution of water, international conference on, 1778
resorption of, injected subcutaneously, 49
OINTMENTS for rectal administration, [Fantus] *1769
applied to urethra, [Fantus] *1983
OLD AGE: See also Life, expectancy; Longevity
clinic for study of diseases of, 1711
contractual capacity, 301—MI
esophagus stenosis in, [Guisez] 516—ab
muscular atrophy of hand in, [Lhermitte & Nicholas] 915—ab
organotherapy in tuberculosis and, [Korenchevsky 231—ab
pyloric nonmalignant obstruction in, [Witherspoon] 719—ab
surgical intervention in gangrene in, [Noon] 379—ab
OLEOTHORAX for spontaneous pneumothorax, [Sarno] 383—ab
OLEO-VACCINE, in tuberculosis, [Tulloch] 1168—ab
OMENTOPEXY in liver cirrhosis, [Lester] *1123
OMENTUM, 1288—E; [Hertzler] 1785—C
fat infiltration, [Brossok] 729—ab
movements, [Florey & Carleton] 1099—ab
OMPHALOMESENTERIC DUCT, persistent, [Dawson & Nehaus] *685
ONCHOCERCA volvulus infection, [Blacklock] 1249—ab
OPHTHALMIA, Egyptian: See Trachoma
OPHTHALMOLOGISTS collaborate with opticians, Netherlands, 566
importance of contributing to literature, [Knapp] *1759
OPHTHALMOLOGY, congress, Italian, 212
Oxford Ophthalmologic Congress, 1634
OPIUM policy of Indian government, 1226
OPTIC THALAMUS, function vs. syndromes, [Dejerine & Roussy] 992—ab
OPTICAL APPLIES, British Optical Convention, 1780
OPTICIANS attempt to obtain registration, England, 1463; 1922
collaborate with ophthalmologists, Netherlands, 566
ORANGE juice as accessory food, [Melvin] 1579—ab
juice as nutrient, 873—E
juice ingestion, effect, [Chaney & Blunt] 1247—ab
ORCHIDECTOMY, technic for, [Vivian] *523
ORCHIEPIDIDYMITIS, tuberculous, [Allodi] 1806—ab
ORCHITIS, complications, 1996
ORGAN EXTRACT, effect on infusoria, [Lwoff] 655—ab
ORGANOTHERAPY: See Glandular Therapy
OROYA FEVER, microbe of, 1959—ab
ORTHOPEDICS and pediatrics, [Spitzy] 657—ab
surgery, diagnosis in, [Ober] *1813
OS CALCIS: See Calcaneum
OSCILLOMETER in obstetrics, [Balard] 1402—ab
OSLER Memorial Volume is ready, 881
OSMOSIS: See also Permeability
in respiratory tract, [Corper] *1739
OSTEARTHRITIS of spine, [Vantancoli] 916—ab
OSTEITIS deformans, [Knaggs] 152—ab
deformans, sarcoma complicating, [Camp] 228—ab
fibrosa, [Knaggs] 152—ab
fibrosa osteoplastica, [Guillain & others] 724—ab
fibrosa polycystica in diabetes insipidus, [Heard & others] 1159—ab
fibrosa with parathyroid tumor, [Mandl] 1104—ab
OSTEO-ARTHROPATHY, hypertrophic, and hippocratic fingers, [Léri] 155—ab
hypertrophic pneumic, in lioness, [Ball & Lombard] 724—ab
OSTEOBLASTS form bone, [Rhode] 309—ab
OSTEOCHONDRITIS deformans juvenilis, [Camurati] 728—ab
deformans juvenilis of hereditary origin, [Valls & Vebrugge] 157—ab
OSTEOMALACIA, [Knaggs] 152—ab
after bile fistulas, [Dieterich] 77—ab
in Kashmir, [Vaughan] 1320—ab
OSTEOMYELITIS, chronic, treatment, [Bauman & Campbell] 582—ab
healing of drill holes in bone, 1568
of frontal bone complicating frontal sinusitis, [Bulson] *246
of innominate bone, [Painter] *341
of spine, [Willensky & Samuels] 1245—ab
OSTEOPATHY and Britannica, [Ward] 137—C
case of Dr. Axham, 636, 1707
in House of Commons, England, 883
inquiry into, England, 1373
Lord Dawson on, England, 1083
on defensive, England, 1225
osteopath charged with manslaughter, 1140
osteopaths want to prescribe narcotics, 1920
pushing osteopaths, England, 1780
OSTEOPOROSIS: See Bone
OSTEOSCLEROSIS fragilis, [Bernhardt] 1589—ab
OSTEOTOMY: See under Bone
OTITIS MEDIA, infantile, [Drury] 95—ab
facial paralysis in, [Manasse] 1808—ab
OTOLARYNGOLOGY, American Board of Otolaryngology, examinations, 881; 1300
directory of otolaryngologists, 1706
fatal blunders in, [Zange] 1954—ab
instruments for ear, nose and throat work, [Botey] 1735—ab
OTOMYCOSIS, potassium iodide in, [Chisolm & Sutton] 511—ab
OTOSCLEROSIS serum inhibit growth of sprouts (Lupines) [Stern] 810—ab
OVARANS, Nelson Elixir Ovarans not accepted for N. N. R., 1383—P
OVARY cancer, [Norris & Vogt] 148—ab
cysts, pains, caused by neuromas, [Roux] 1587—ab
function, [Zondek & Aschheim] 1589—ab
function and hormone, [Zondek & Aschheim] 520—ab
function vs. blood supply, [Macomber] 1483—ab
function vs. ectopic adenomyoma, [Graves] 148—ab
grafting, [Bell] 308—ab; [Pettinari] 1731—ab
grafting, intra-uterine, [Monson] 1400—ab; [Serdukoff] 1805—ab
grafting, remote results, [Rheaume] 518—ab
hemorrhage, [Beall] 1867—ab
hemorrhage or pregnancy? [Traugott] 1591—ab
hemorrhage, treatment, [Sippel] 729—ab
hormone and function, [Zondek & Aschheim] 520—ab
hormone, aqueous solution, [Zondek & Brahn] 454—ab
hormone, clinical tests, [Pratt & Allen] *1964
injuries, Bell-Beuttner operation for, [Bell] 582—ab
insufficiency, calcium in, [Crainicianu] 2004—ab
insufficiency, vs. bronzing and psychic disturbances, [Bonilla] 1324—ab
lactic acid in, [Loeser] 1175—ab
radiotherapy, [Geseler] 3—ab
roentgenotherapy for sterility, [Caulman] 988—ab
tumor, cystoma, blood requirement, [Engelbrecht] 1668—ab
tumor, folliculoma, [Manheims] 1939—ab
tumor, ruptured papillary adenocystoma causes intraperitoneal hemorrhage, [Phaneuf] *931
vesicular follicle, fate of, [Shaw] 984—ab
OVUM, lipoid content vs. sex determination, [Fels] 660—ab
transportation mechanism, [Novak & Eisenger] 1738—ab
OXALURIA: See under Urine
OXYCEPHALY, [Greig] 1945—ab
OXYGEN, action on bone explants, [Liek] 520—ab
consumption of muscle, [Harding] 2003—ab
consumption vs. ultraviolet rays, [Mason & Mason] 1862—ab
deficiency as cause of tetany, [Campbell] 807—ab
inhalation in high altitudes, [Stern] 1325—ab
pressure vs. normal and malignant tissue cells growth, [Fischer & Buch Andersen] 1176—ab
tension and tetany, [Campbell] 72—ab
Therapy: See also Pneumopericardium; Pneumoperitoneum
therapy, 1455—E
therapy in malignant edema, [Roantree] *1345; [Janssen] 1855—C
therapy in pneumonia, [Barach] 1480—ab
therapy in tuberculous meningitis, [Klinke] 1256—ab
therapy of undernourished tissue, [Lieben] 455—ab
tissue cultures and, [Fischer & Andersen] 1257—ab
OXYHEMOGLOBIN: See Hemoglobin
OYSTERS, certified, 42
OZENA fetidity, bacilli causing, [Blanc & Pangalos] 451—ab, 517—ab

P

PACHYMENINGITIS, hemorrhagic, [Debré & Semelaigne] 1488—ab; [Sonnenfeld] 1954—ab
PACKAGE LIBRARY at Indiana University, 1138
PAGE, STEPHEN, F. R. C. S., 1923
PAIN, gelatin treatment, [Margulis] 519—ab
conduction in vessel nerves, [Hirsch] 1876—ab
referred, and viscera pain, [Ryle] 1870—ab
referred, pupils in, [Byrne] 1247—ab
PAINTS, coal tar, poisoning from, [Kidston] 1400—ab
in medication, [Fantus] *347
poisoning, protection against, 1922
PALATE, soft, [Neuda] 1174—ab
hard, melanouma of, [Patterson] 984—ab
PALESTINE, health in, 1300
PALPATION in pyelitis, [Jungmann] 316—ab
of thyroid, method, [Lahey] *813
PANCREAS: See also Islands of Langerhans
accessory, 1091
action on vagus tonus and excitability, [Garrelon & others] 451—ab
cysts, pancreatic fistula after, [Gutièrrez] 382—ab

PANCREAS—Continued
development vs. thyroid development, [Aron] 1665—ab
digestion of protein, [Willstätter] 588—ab
Disease: See also Pancreatitis
disease, blood atoxylresistant lipase in, [Simon] 236—ab
disease, insulin-dextrose therapy, [Grunenberg] 1255—ab
dysfunction causes celiac disease, [Magni & Piraml] 1806—ab
dysfunction, with suprarenal insufficiency, [Gougerot & Peyre] 451—ab
Fistula: See Fistula
function test, Carpis, [Papp] 1255—ab
function test, iodine, [Piersol & others] 1654—ab
function test, modified Katsch method, [Labbé & others] 655—ab
histology in nutritional disorders, [Dreifuss] 658—ab
injury, [Roegholt] 238—ab
necrosis, [Tschernign] 158—ab; [Walzel] 520—ab
Preparations: See also Pancreatin
preparations increase digestive power of duodenal enzymes, [Silverman & others] 67—ab
preparations, orally, vs. carbohydrate metabolism, [Cammidge] 583—ab
raw, in diabetes mellitus, [Neve] 1484—ab
removal, effect on succus entericus, [Koskowski & Ivy] 1315—ab
removal vs. blood diastases, [Markowitz & Hough] 1315—ab
sarcoma in infant, [Deane] 1484—ab
Secretion: See also Insulin
secretion, external, humoral mechanism and hormone of, 1698—E
tissue, regenerated by transplanted pancreatic duct, [Shaw & Latimer] 1797—ab
treatment of digestive disturbances, [Leitner] 589—ab
tumor, cystadenoma, [Carling & Hicks] 152—ab
tumor, insuloma, 1230
PANCREATECTOMY: See Pancreas, removal
PANCREATIC DUCT, transplanted, regenerates pancreas tissue, [Shaw & Latimer] 1797—ab
PANCREATIN, ingested, enzymic activity of, [Aaron & others] 1654—ab
PANCREATITIS, acute, [Wolfer] 719—ab
acute, diabetes sequel to, [Dunn & others] 1485—ab
acute hemorrhagic, [Butler & Delprat] 1660—ab
grangenous, experimental, pathologic physiology, [Tower] *1112
PANDY REACTION: See Cerebrospinal Fluid, Test
PAPAVERIN, action on stomach, [Bársony & Friedrich] 158—ab
PAPER towels for surgical wound dressings, [Woolsey] *1612
PAPILLOMA of larynx, roentgenotherapy, [Solomon & Biondeau] 1732—ab
of thyroid, [Guazon] 1318—ab
skin, arsenic treatment, [Houston] 654—ab
spread by implantation of urinary tract papilloma, [Maybury & Dyke] 152—ab
PARAFFIN films, [Fantus] *116
in sac of inguinal hernia, [Andrews] *1835
PARAFFINOMA, [Montgomery & Culver] *92
PARAGUAY, medical observations in, [Capelle] 1172—ab
PARA-INSULIN: See Insulin
PARALDEHYDE: See Eclampsia, treatment
PARALYSIS: See also Hemiplegia
abductor, of hip, [Colonna] 2002—ab
after antirabic vaccine, [Syllaba] 729—ab; [Cornwall & Rose] 1484—ab
after fractures, [Lewis] 1380—ab
after reducing congenital dislocation of hip, [Velo] 1403—ab
agitans, bulbocapnine in, [Mella] 1654—ab
agitans, hereditary and familial tendency, [Kückens] 236—ab
agitans, lesions in, [Marinesco] 1251—ab
agitans on one side, arthritis on other, [May] 1100—ab
agitans, parkinsonian states, [Hassin & Bassoe] 1245—ab
agitans, pathology, [Byrnes] 1724—ab
agitans, postencephalitic, [McKinley & Cowan] 716—ab
agitans, tremor in, [De Jong] 920—ab
cerebral, deformities from treatment, [Pyles] 306—ab
cerebral, in children, [De Capite] 382—ab
cerebral monoplegia, segmented, [Wilson & Winkelman] *619
Diver's: See Caisson Disease
facial, anastomosis for, [Brown] 373—ab
facial, galvanic and faradic current for, 1235
facial, in otitis, [Manasse] 1808—ab
facial, palm-chin reflex in, [Radovici & Marinesco] 1872—ab
flaccid, extradural spinal meningeal hemorrhage, [Reid & Kennedy] 310—ab
General: See PARALYSIS, GENERAL
Infantile: See Poliomyelitis
intestinal, nicotine injections into celiac ganglion for, [Rosenstein] 1809—ab
obstetric, [Friedman & Chamberlain] *934

PARALYSIS—Continued
of inferior laryngeal nerve, laryngoplasty, [Schmieden] 1809—ab
opponens, of thumb, surgery, [Howell] 911—ab
periodic, [Shinosaki] 1877—ab
peripheral, roentgenotherapy, [Kraus] 78—ab
spastic, Stoffel operation for, [Lebreton & Cleary] 1726—ab
spastic, sympathectomy for, [Forbes & Cobb] *1894; [Davis & Kanavel] *1890
supranuclear, of motor nerves of eyes, [Adrogué] 383—ab
PARALYSIS, GENERAL, [Schükry] 78—ab
diagnostic test in, [Harris] 984—ab
in insane, [Henry] 1167—ab
incipient, [Bunker] 1796—ab
insurer's liability, 300—MI
malaria treatment, 316—ab; [Fribourg-Blanc] 381—ab; [Cortesi] 518—ab; [Bosch & Mó] 1951—ab
mesaortitis and, [Coenen] 990—ab
necropsy findings in, [Cajal] 1878—ab
remissions in, [Sisternas] 1405—ab
smallpox vaccination and, [Plaut & Jannel] 1737—ab
Treatment: See also Paralysis, General, malaria treatment
treatment, drugs in, [Sézary & Barbé] 1665—ab
treatment, fever incubation period in, [Weichbrodt] 77—ab
PARANEPHRITIS, autovaccine in, [Cieszynski] 912—ab
PARASITES, Intestinal: See Intestines
PARATHYROID and estrus, [Lee] 1656—ab
extract, effect on blood, [Sherill & Copp] 1394—ab
extract effect on blood calcium, [Berman] 905—ab
extract in infantile tetany, [Hoag & Rivkin] *1343
extract in peptic ulcer, [Alkan] 1952—ab
extract in tetany parathyreopriva, [Lesser] 69—ab; [Fisher & Larson] 511—ab
graft for tetany, 496; [Prugoni & others] 1587—ab
graft in partial thyroidectomy, [Lahey] 1944—ab
growth and, [Hammett] 1656—ab
histology, [Williamson & Pearce] 2003—ab
hormone, [Schulten] 520—ab
hormone—a warning, 351—E
hormone effect on tuberculosis [Gordon & others] *1688]
internal secretion, [Berman] 1396—ab
tumor with fibrous osteitis, [Mandl] 1104—ab
PARATHYROIDECTOMY, effect on calcium excretion, [Greenwald & Gross] 448—ab
PARATYPHOID Bacillus: See Bacillus, paratyphoid-enteritidis group
differentiation, priority in, [Rivas Morales] 1806—ab
immunization, oral, [Sokolova] 590—ab
in infant, [Gingold & Wexler] 1795—ab
liver and kidney symptoms in, [Paguiez & Escalier] 1486—ab
PAROTITIS complicating orchitis, 1996
etiology, [Kermorgant] 1947—ab
local immunity in, [Cramer] 1324—ab
treatment, bremotherapy, [Coutts & Vicuña] 1951—ab
PASTES, [Fantus] *416
PASTEUR, Italian precursor of, 1228
PASTEURIZATION: See Milk
PASTILLES and lozenges, [Fantus] *823
PATELLA: See also Knee
congenital dislocation, [Zanoli] 1403—ab
traumatic chondropathy, [Prind] 1737—ab
PATENT, in freak medical, 1701—E
PATENT MEDICINES: See Nostrums
PATHOLOGY, biometric studies in, [Pearl & Bacon] 1655—ab
as regarded by ancients, 1276—ab
PAUL, F. T., bronze cast of surgeon's hand, 1561
PECK'S TOUR, 127
Berlin faculty welcome vs. American physicians, 209; [Peck] 436—C
PEDIATRICS, graduate school for pediatricians, 52
meeting of pediatricians, 566
orthopedics and, [Spitzy] 657—ab
ultraviolet therapy in, [Wyman] 981—ab
PELLAGRA and chronic ulcerative colitis, [Barnes] 1244—ab
diet in prevention and treatment, [Faust-Newton] 1583—ab
morbid anatomy, [Susman] 1166—ab
PELLIZZARI, CELSO, death of, 705
PELVIS, foreign body in, [Nayak] 1249—ab
infection, chronic, [Curtis] 582—ab
infections, diathermy in, [Cherry] *1745
infections, milk injections in, [Rawls] 308—ab
measurement, ischial-ramic diameter vs. common left cervical tear, [Gardiner] *161
reduplication, [Ormond] 1942—ab
PEMPHIGUS, spinal cord in, [McGlasson & Keiller] 376—ab
PENCILS in medication, [Fantus] *347
PENIS, included cicatricial tissue, [Salleras] 656—ab
PENSIONS: See also Nurses
for health officers vs. war service, Italy, 1375
for medical practitioners, Italy, 885

PENTATRICHOMONAS prevalent in Calcutta, [Gupta] 1249—ab
PEPPERMINT juice vs. blood clotting, [Sollmann & von Oettingen] *889
PEPTIC ULCER, [Jarno] 1952—ab
cancer in, [Stewart] 310—ab
Diagnosis: See also Peptic Ulcer, roentgen diagnosis
chronic, character, [Walke] 1174—ab
diagnosis, atropine test, [Stranz] 728—ab
diagnosis, frequency of symptoms, [Cassidy] 1583—ab
diagnosis, topical, [Frenkel] 659—ab
duodenal, [Benjamin] 373—ab
duodenal alimentation, [Trossarelli] 1666—ab
duodenal, duodenectomy for, [Pannett] 807—ab
duodenal, infection in, [Duval & others] 1663—ab
duodenal, logical treatment, [Nicolaysen] 730—ab
duodenal, with diverticulum in 13 year old boy, [Dickey] *815
endocrines and, [Alkan] 1952—ab
etiology, [Monsarrat] 1584—ab
gastric, [Benjamin] 373—ab; [Hirsch] 657—ab
gastric, cross-bar symptom, [Fränkel] 1874—ab
gastric, infection in, [Duval & others] 1663—ab
gastric, localization vs. acidity, [Loktionowa] 1171—ab
gastric, pathogenesis, [Koennecke] 587—ab; [Bálint] 659—ab
gastric, roentgen diagnosis, 566
gastric, spasms and pains in, [Cobet & Gutzeit] 1254—ab
gastric, test glycemia with, [Scharpff] 1172—ab
gastric, treatment, [Morawitz] 78—ab
gastric, vs. cancer, [Stewart] 310—ab
gastric, vs. vagus nerve, [Loeper & Marchal] 725—ab
gastric, with diverticulum, bismuth for, [Moutier & Parcher] 655—ab
hemorrhage from, [Schwarz] 810—ab
infection in gastric and duodenal, [Duval & others] 1663—ab
jejunal, perforated, [Ascheroft] 1584—ab
jejunal, secondary, [Gussio] 1666—ab
pathogenesis, [Koennecke] 587—ab; [Bálint] 659—ab
pathogenesis, inflammation in, [Konjetzny] 917—ab
perforated jejunal, [Ashcroft] 1584—ab
perforation, [Riess] 317—ab
rectal feeding in, 1464
recurrence after resection, [Friedemann] 79—ab
recurring, [Rivers & Eusterman] 375—ab; [Mizell] 908—ab
recurring, insulin treatment, [Feissly] 1804—ab
roentgen diagnosis, 566
roentgen findings, [Janson] 1258—ab
spastic, predisposition to, [Strauss] 1874—ab
surgical morbidity, cooperation reduces, [Eusterman] 1163—ab
surgical treatment, cholecystogastrostomy, [Braithwaite] 1870—ab
surgical treatment, duodenectomy [Pannett] 807—ab
surgical treatment, gastroduodenostomy, [Hughson] *1275
surgical treatment, healing in, [Crohn & others] 1480—ab
surgical treatment, partial gastrectomy, [Horsley] *864
surgical treatment, recurrence after resection, [Friedemann] 79—ab
surgical treatment, resection, [Carter] 580—ab
surgical treatment, results, [Pauchet] 308—ab
"surgically incurable," [Mandl] 385—ab; [Finsterer] 1668—ab
suture material and, [O'Conor] 578—ab
treatment, [Morawitz] 78—ab; 117—ab; [Nicolaysen] 730—ab; [Mizell] 908—ab; [Bufalini] 1733—ab
treatment, bismuth, [Moutier & Parcher] 655—ab
treatment, diet, [Lehmann] 810—ab
treatment, internal, [Steinberg] 1254—ab
treatment, parathyroid extract, [Alkan] 1952—ab
treatment, vaccine, [Roux & Girault] 655—ab
PEPTIDASES in fever, [Pfeiffer & Standenath] 1809—ab
PEPTONE in strophulus, [Pasteur Vallery-Radot & Blamoutier] 1949—ab
PERFECTION DEVELOPER, 218—P
PERICARDITIS, exudative, [Kamenetzky & Rabinowitsch] 1737—ab
exudative, pneumopericardium for, [Yacoel & Giroux] 1730—ab
PERICARDIUM calcification, [Schlesinger] 657—ab
calculi, [Kirschner & Matthes] 1171—ab
roentgenography, [Castex & others] 1251—ab; 1925
PERIDUODENITIS, [Quain] 373—ab
PERINEUM, resection for urethral stenosis, [Bazy] 1323—ab
lacerations, [Henkel] 1952—ab
PERIODIC HEALTH EXAMINATION: See Physical Examination, periodic

PERISTALSIS, antiperistalsis of duodenum, [Wheelon] *326
gastro-intestinal, 1838—E
PERITONEUM, hemorrhage in, from ruptured papillary adenocystoma of ovary, [Phaneuf] *951
abdominal surgery and, [Gutierrez] 1943—ab
PERITONITIS: See also Pleuroperitonitis
acute, treatment, [Harbin] 1319—ab
acute, with cirrhosis and ascites, [Garnier] 1486—ab
after intra-uterine injection of soapy water, [Petersen] 1812—ab
blood transfusion in, [Caplesco] 724—ab
gonococcal, complicating gonorrheal vulvo-vaginitis, [Gleich] *748
lymphatic drainage in, [Costain] 1659—ab
lymphaticostomy for, [Whiteford] 152—ab; [Cooke] 152—ab
pneumococcic and streptococcic, in children, [Lipshutz & Lowenberg] *99
pneumococcus primary, [Leonardo] 1579—ab
suppurative generalized, treatment, 1927
thoracic duct drainage in, [Klug] 1172—ab
tuberculous, [Silvestri] 234—ab; [Garbat] *601; [Hayes] 904—ab; [Guilbert] 1653—ab
tuberculous, polyradiotherapy, [Saidman] 75—ab
PERMEABILITY: See also Meninges; Osmosis; Placenta
diabetes and, [Wiechmann] 1171—ab
membrane potential between blood and serous fluids, [Janousek & Andreas] 522—ab
PEROXIDASE function of oxyhemoglobin, [Bakh & Kultiugin] 1104—ab
PERSON, S. ARVID, 57—F
PERSONAL INJURIES: See Accidents; Malpractice; Trauma; Workmen's Compensation
PERTUSSIN, 573
PERTUSSIS: See also Whooping Cough
Pertussis Immunogen, 1911
Pertussis Vaccine, 37
PES CAVUS: See Foot Deformity
PETROLEUM benzin poisoning, [Schustrow & Salistowskaja] 1254—ab
benzin, habituation to, [Schustrow & Salistowskaja] 1254—ab
PHAGOCYTES, mononuclear, in peripheral blood, [McJunkin] 979—ab
cell in bone marrow in pernicious anemia, [Doan] 1800—ab
PHAGOCYTOSIS, and cell reaction, [Metalnikov & Toumanoff] 313—ab
reticulo-endothelial system and, [Zebrowski] 1737—ab
PHALANGES, giant cell tumors, [Cole] 1579—ab
PHARMACEUTIC SAMPLES, distribution of, [Nice] 1931—C
PHARMACISTS refuse to cooperate in producing new edition of British pharmacopeia, 129
PHARMACOPEIA, British, pharmacists refuse to cooperate in producing new edition, 129
Dutch, [Pinkhof] 1669—ab
PHARYNX, cancer, surgery, [Trotter] 1166—ab
medication, [Fantus] *623
syphilis, [Plaut] 1667—ab
PHENOBARBITAL causes bullous eruption, [Weber] 983—ab
in breast milk, [Prensdorf] 1591—ab
PHENOL autointoxication and diuresis, [Binet & others] 1664—ab
in Urine: See Urine
PHENOLSULPHONPHTHALEIN excretion in obstructive jaundice, [Abramson] 1481—ab
PHENOLTETRAIODOPHTHALEIN, sodium, for simultaneous cholecystography and hepatic and renal function tests, [Graham & others] *46
in cholecystography, [Graham & others] *1899
PHENYLHYDRAZINE DERIVATIVES, anemia produced by, [Long] 1940—ab
in polycythemia, [Long] 1940—ab
PHILIPP'S VIRULENCE TEST: See Virulence
PHLEBITIS: See also Pylephlebitis; Thrombophlebitis
postoperative, blood coagulation in, [Chauvin & others] 1731—ab
ultraviolet rays for, [Savini] 913—ab
PHOSPHATE metabolism, [Demuth] 657—ab
PHOSPHATIDE metabolism in pregnancy, [Baumann & Holly] 1315—ab
PHOSPHORUS in Blood: See Blood
in Urine: See Urine
metabolism, [Greenwald] 318—ab
metabolism vs. calcium and sodium salts, [Greenwald] 1318—ab
therapy, [Castellani] 153—ab
white, and mineral metabolism, [Bernhardt & Rabl] 237—ab
PHOTOTHERAPY: See Tuberculosis, surgical
PHRENICOTOMY: See Nerve, phrenic; Tuberculosis, Pulmonary
PHTHALEINS: See Phenolsulphonphthalein; Tetraiodophenolphthalein, etc.
PHYSICAL EDUCATION, 1564
Athenian program, 1527—ab
PHYSICAL EFFICIENCY, 953—E
in college, [Emerson] *1511
tests, Schneider and Crampton, in athletic and nonathletic girls, [Damez & others] *1429
PHYSICAL EXAMINATION, college, the start of a life habit, 1216—E
PHYSICAL EXAMINATION—Continued
department for, at Baylor University College of Medicine, Dallas, 1223
for insurance, [Musgrave] 1644—ME
manual in French, 562
marriage license and, 1562
of railway employees, 965
periodic, 1036; [Phillips] *1261
periodic, address of President Haggard, 1292
periodic, conference on, 64; 145
periodic, educating physician already in practice, [Thomson] 64—ab; [Emerson] 143—ab
periodic, education of laity, [Edie] 66—ab; [Ferguson] 145—ab; [Dearholt] 145—ab; [Osborne] 146—ab
periodic, end-results, [Emerson & others] 65—ab
periodic, how it should be conducted, [Emerson & others] 143—ab; [Emerson] 143—ab
periodic, of middle aged man, [Haggard] 64—ab
periodic, need of, 1128—ab
periodic, postgraduate courses in, [Wightman] 65—ab
right of court to order, 1157—MI
waiver of inviolability by plaintiff, 1650—MI
PHYSICAL FITNESS: See Physical Efficiency
PHYSICAL THERAPY, [Emerson] 149—ab
A. M. A. Council on Physical Therapy, [Fishbein] *270
department, Beekman Street Hospital, [Titus] *261
graduate course, University of Naples, 1637
in arthritis, [Gordon] 909—ab
prize contest in, 1778
PHYSICIANS: See also Contract; Ethics, Medical; Fees; Physical Examination, periodic; Licensure; Malpractice; Medicine; Specialist; Surgeons; etc.
action against hospital for roentgen-ray injury, 1560
age of average rural physicians, [Pusey] *1501
art exhibit by, Brussels, 499
assaulted by students at Buenos Aires, 1637
bequest of his body, 1084
case of Dr. Axham, 636; 1707
children of physicians who fell during the War aided in Italy, 212
clinician of future, [Herrick] *1
death of two from taking drugs for insomnia, 288
deaths, in 1925, 118—E
dismissal revoked, satisfaction to senior physician, 431
elected mayors, 878
epitaph injurious to, cannot be tolerated, court of Montpellier, 1708
family, as educator, 490—ab
financial aid for, Berlin 53
fined for breach of dangerous drugs regulations, England, 1374
foreign, licensing of, [Connor & others] 957—ab; 1554—E
German, in 1925, 1303
Great physicians, 421—E; 755—E
home for incapacitated practitioners, A. M. A. resolution on, 1296
hospital connection of, *1012
in aeronautics, 799
in Argentina, 1637
in Congress, 489—E
in guidance of individual, [Le Gendre] 75—ab
in politics; 489—E; 878; 1458—E
in public life, 1458—E
insurance societies run by, Buenos Aires, 1085
International Medical Union, 1562
International Society of Medical Practitioners, proposed, 1636
Japanese, in Far East, 1146
Japanese, in North Sagalein and Siberia, 1302
life expectancy, [de Wilde] 318—ab; 1087
medical officialdom, 11 to 1 family, 963
newspaper publicity and, England, 49; 130; 1373; 1464
of Berlin, 500
of future, 419—E
patient of future and, [Phillips] *1259
pension system planned, Italy, 885
photographs in court prohibited, England, 1921
Physicians' Home benefit concert, 1843
Physicians' Home has option on estate, 492; 755—E
Physicians' Home, Inc., 492; 759
publicity and, England, 49; 130; 1373; 1464
railroad, [Paithe] 456—ab; 1068
rural, age of, [Pusey] *1501
seven sentence on, for supplying morphine contrary to regulations, England, 1561
study trip, Czechoslovakia, 133
supply, [Pusey] *1501
supply, increase of, Japan, 1565
supply, superabundance, Italy, 1563
to examine applicants for marriage license North Carolina, 766; 879
Travel Study Club, 46, 1918
women, fewer in medicine, England, 963
PHYSIOLOGY, International Conference on, 1924
PHYSIOTHERAPY: See Physical Therapy
PHYTOLINE, 220
PICK, FRIEDL, death of, 1711
PIES and cake forever, 1773—E
PIFFL, OTTO, death of, 703
PIGMENTS for medicating mouth and pharynx, [Fantus] *624
PILLS, [Fantus] *1007, *1129
alkaloid adsorption in, [Sabaltschka] 316—ab
PILOCARPINE effect on metabolism, [Papilian & Bendescu] 1323—ab
in spontaneous gangrene, [Stühlern & others] 78—ab
PINK DISEASE: See Acrodynia
PINWORMS, treatment, 1309; 1716
PITUITARY BODY, development, [Atwell] 1723—ab
disease in boy, aged 4, [Johnsen] *31, 892—C; [Fink] 892—C
dyspituitarism, thyroid opotherapy in, [Wynn] *820
Dystrophy: See Dystrophy, adiposogenital
gumma, [Broussolovski] 913—ab
habitus in children and, [Glanzmann] 158—ab
hormone, and insulin, [Serebrijski & Vollmer] 78—ab
hormone in cisterna, [Jánossy & Horváth] 384—ab
hyperplasias, glandular treatment, [Timme] 1863—ab
hypopituitarism and diabetes, [Johns] 69—ab
infundibulotuberal region relation to, 964; [Roussy] 1322—ab
lesions, roentgenotherapy, [Grant] 1863—ab
lesions, surgery for, [Frazier] 1864—ab
Pituitary Body Anterior Lobe, Desiccated-Mulford, 1440
Pituitary Solution Surgical-Wilson, 1410
Pituitary Solution, U. S. P. X. Obstetrical-Wilson, 1213
posterior lobe, active principles, [Schlapp] 233—ab
preparations, standardization, [Tauber] 456—ab
tumors, [Hirsch] 918—ab
tumors, adenoma, [Dott & Bailey] 152—ab
tumors, roentgenotherapy, [Towne] 717—ab
PITUITARY EXTRACT: See also Glandular Therapy
activity, [Lampe] 659—ab
administered by alimentary canal, [Knaus] 1166—ab
effect on biliary passage motility, [Kalk & Schoendube] 1491—ab
effect on cerebrospinal fluid, [Shapiro] 1654—ab
effect on diuresis, [Labbé & others] 2004—ab
effect on spleen contractility, [Pagniez & others] 381—ab
effect on stomach, [Schoendube & Kalk] 917—ab, 1405—ab
effect on uterus, [Sherrill] 303—ab; [Knaus] 307—ab
hypertension after intraspinal injection, [Leimdörfer] 659—ab
in obstetrics, [Sherrill] 303—ab; [Tholen] 1592—ab; [Muller] 1955—ab
Pituitary Extract-Mulford, Sterile Solution of Anterior Lobe Pituitary Extract-Mulford, 1440
treatment of asthma, [Buendia] 1873—ab
treatment of diabetes insipidus, [Waldorp] 1734—ab
treatment of kidney calculi, [Kalke & Schondube] 727—ab
treatment of pituitary hyperplasias, [Timme] 1863—ab
uterus rupture from, [Sherrill] 303—ab
water metabolism and, [Koref & Mautner] 658—ab
PITYROL injection causes tumor, [Kaneko & others] 1811—ab
PLACENTA, biology, [Kraul & Bodnar] 79—ab
calcium content, [Wehefritz] 519—ab
infarction, etiology, [Browne] 1802—ab
lactic acid in, [Loeser] 1175—ab
permeability, polyarthritis in infant, [Richdorf & Griffith] 1243—ab
permeability, vs. filtrable tubercle bacillus, [Arloing & Dufourt] 1251—ab
praevia, [Wagner] 1256—ab
praevia at Buenos Aires, [Palacios Costa & Landa] 453—ab
praevia, cesarean section for, [Smith] 805—ab
praevia, treatment, [Kellogg] 1393—ab
prolapse, [Kucker] 1393—ab
separation, premature, experimental, [Hofbauer & Geiling] 1395—ab
tumor, [Maxwell] 910—ab
PLAGUE bacillus, action on carbohydrates, [Pons] 313—ab
bacillus, vitality, [Jettmar] 1400—ab
bubonic, iodine intravenously in, [Bharadwaj] 1585—ab
situation in Asiatic ports, 762
PLANTAR LINES in mental defectives, [Brushfield] 983—ab
PLANTS, "heart" of plant; Sir J. C. Bose's latest discoveries, 428
nervous system, 1847
PLASTERS, [Fantus] *195
barium sulphate-Portland cement, protects against roentgen-ray [Hunt] 651—ab
PLEURA, absorption from, [Corper] *1739
actinomycosis, [Shoemaker] 1868—ab
calcification, [Young] 379—ab
effusions formation, vs. artificial pneumothorax, [Carlson & Bunnell] 1799—ab

PLEURA—Continued
pain, controlled by alcohol injection, [Swetlow] 904—ab
pain, tension theory, [Bray] 904—ab
skin and, [Sorgo] 1954—ab
tuberculosis, [Lemon] 309—ab; [Miller] 903—ab
PLEURISY: See also Empyema
significance, [Hastings] 1581—ab
with adhesions during pneumothorax treatment, [Bernard & others] 656—ab
with effusion, calcium chloride in, [Oriani] 2004—ab
with effusion, shifting, [Lenk] 317—ab
with effusion, treatment, [Berri] 2005—ab
with effusion, with cholesterol and tuberculosis, [Malinin] 450—ab
PLEUROPERITONITIS, complicating liver cirrhosis, [Dumitresco-Mante & Olinesco] 1251—ab
PLEX-TONE, 642—P
PNEUMOCOCCUS, electrophoretic potential vs. pneumonia fatality, [Falk & others] 378—ab
extract, effect on blood cells, [Reimann & Julianelle] 1097—ab
extracts produce purpura, [Julianelle & Reimann] 1097—ab
immunity, [Gutfeld & Nassau] 1953—ab
infection of new-born, [Garrahan & Bettinotti] 989—ab
Pneumococcus: Immunogen, 1911
serology, [Berger & Engelmann] 1809—ab
PNEUMO-ENCEPHALOMYELOGRAPHY, [Liberson] 1723—ab
PNEUMONIA, Bacillus mucosus causes, [Belk] 1395—ab
basal metabolism after, [Shick & others] 1243—ab
diabetes mellitus, gangrene, and, [Kiefer & others] 981—ab
diagnosis in new-born, [Hatai] 1663—ab
diagnosis; sinus thrombosis simulating, [Strauss] *330
immunization, [Jones] 1479—ab
in children, [Navarro & Burghard] 519—ab; [Wieland] 1872—ab
in infants, early symptom, [Burghard] 1735—ab
mortality, [Kelley] 906—ab
mortality, vs. electrophoretic potential of pneumococci, [Falk & others] 378—ab
nasal passages in, [Felty & Heatley] *1195
postoperative, calcium chloride urea to prevent, [Lindauer] 660—ab
postoperative, etiology, [Whipple] 1576—ab
postoperative, roentgenotherapy, [Fried] 990—ab
prognosis, leukocyte fragility test in, [Pons & Ward 150—ab
sequels, acute cerebral tremor, [Wieland] 1872—ab
therapeutic anatomy, [McClintic] 227—ab
treatment, oxygen, [Barach] 1480—ab
treatment, serum, [Brand & Kochmann] 1737—ab
treatment, vaccine, [Dick] 232—ab
PNEUMONOCONIOSIS, 291; [Pancoast & Pendergrass] 304—ab; 1754—ab
relation to tuberculosis, [Riddell] 908—ab
PNEUMONOGRAPHY, [Cierf] 309—ab
PNEUMOPERICARDIUM, artificial, for exudative pericarditis, [Yacoel & Giroux] 1730—ab
PNEUMOPERITONEUM in tuberculous peritonitis, [Silvestri] 234—ab; [Garbat] *601; [Hayes] 904—ab; [Guilbert] 1653—ab
PNEUMOTHORAX, spontaneous, in children, [Benjamin] 1735—ab
spontaneous, medicated oil injection for, [Sarno] 383—ab
PNEUMOTHORAX, ARTIFICIAL: See also under Tuberculosis, Pulmonary [Sweezey & Schonbar] 1316—ab
air embolism in, [Lindblom] 1878—ab
alternate, [Rist] 50—ab
complications, [Viton] 1405—ab
contralateral warning zone in, [Campani & Fiori] 1806—ab
does it prevent pleural effusion formation? [Carlson & Bunnell] 1799—ab
end-results, [Pearson] 909—ab
fluid of, filtrable tubercle bacilli in, [Veber] 1252—ab
for acute pulmonary abscess, [Tewksbury] 446—ab
hemiplegia during, [Castex & Romano] 383—ab
mediastinal hernia complicating, [Bernard & others] 1948—ab
pleurisy with adhesions during, [Bernard & others] 656—ab
simultaneous bilateral, 362; [Zuccola] 915—ab; [Tobé & Terrasse] 1949—ab
POISONS and reticulo-endothelial system, [Händel & Rosenzuaig] 1323—ab; [Gucclone] 1489—ab
dangers, 1707
POLIOMYELITIS, acute, salt solution intravenously in, [Smith] 1479—ab
anterior, cephaloplegic form of, [Carrau] 1950—ab
anterior, muscle reeducation in, [Hatch] 1319—ab
colloidal benzoin reaction in, [Regan 445—ab
complications "dangle foot" surgery, [Mouson & Mackenzie] 1164—ab

POLIOMYELITIS—Continued
complications, measles, [Tronconi] 916—ab
electrodiagnosis, [Kovacs] *741
epidemic, and chorea, [Estapé] 989—ab
epidemic bulbar, [McEachern] *90
epidemiology, [Aycock & Eaton] 147—ab
false Kernig sign in, [Morquio] 2004—ab
in Australia and New Zealand, [Gill] 1166—ab
multiple cases of measles, scarlet fever and [Aycock & Eaton] 147—ab
treatment, antiserum, Petti's, [Etienne] 1488—ab
treatment, convalescent serum, [Ayer] 294—C; [Fleischner] 295—C; [Draper] 296—C
treatment, electrotherapy, [Kovacs] *741
POLIOMYELO-ENCEPHALITIS, human serum injections in, [Hylton] 516—ab
POLITICS, physicians in, 489—E; 878; 1458—E
POLLENS, antigenic properties, [Huber & Koessler] 979—ab
extract of Bermuda grass intradermally in hay-fever, [Phillips] *182
Pollen Extracts, Concentrated-Swan-Myers, 625; 1131
Pollen Extracts-Arico, 277
Pollen Extracts-Cutter, 277
Pollen Extracts-Mulford, 1131
survey, intensive system for, [Koessler & Durham] *1264
therapy with protein-free extracts, [Black & Moore] *324; [Alles] 1151—C; [Black] 1151—C
POLLITZER, death of, 703
POLYARTHRITIS: See under Arthritis
POLYCYTHEMIA and acidosis, 1229
after burns, [Schreiner & Pucsko] 455—ab
blood volume in, [Lampe] 315—ab
childbirth with, [Paulicek] 316—ab
from rectogenital pouch tumor, [Barnes & others] 985—ab
phenylhydrazine derivatives in, [Long] 1940—ab
rubra, roentgenotherapy, [Patterson] 232—ab
vera, vascular changes in, [Brown & Giffin] 1578—ab
POLYDIPSIA: See Thirst, excessive
POLYNEURITIS: See under Neuritis
POLYPHARMACY, [Fantus] *841
POLYURIA: See Diabetes Insipidus; Urine, excessive
PONS and MEDULLI, hemorrhage in brain lesions, [Wilson & Kinkelman] 1724—ab
hemorrhage after tonsillectomy, [Tawse] 1585—ab
lesion during anesthesia, [McCardle & Featherstone] 1803—ab
PORADENITIS: See Lymph Nodes
POROCEPHALOSIS, [Riding] 1249—ab
PORTAL VEIN, sclerosis, [Lehmann] 1668—ab
inflammation, [Eliason] 1944—ab
POST GRADUATE ASSOCIATION OF NORTH AMERICA, 127
Berlin faculty welcome and American physicians, 209; [Peck] 436—C
POSTMORTEM EXAMINATIONS: See Necropsies
POSTURE standards, charts for, 358
erect, and inferiority of our organism, [Harrensten] 660—ab
POTASSIUM Iodide: See Otomycosis
permanganate effect on blood pressure, [Nott] 582—ab
tartrate solutions, [Rupel] *544
POULTICES: See Plasters
POWDERS, Dusting: See Dusting Powders
[Fantus] *1210
POWELL, RICHARD DOUGLAS, physician to the king, 288
PRECIPITIN REACTION, [Rosenow] *9; [Tanzowsky] *263; [Okell] 1321—ab
PRECIPITINOGEN and toxin, [Eisler & Kovács] 1954—ab
PREGNANCY: See also Abortion; Eclampsia; Fetus; Labor; Obstetrics; Puerperal Infection; Pyuria
acetonuria in, [Kleesattel] 1325—ab
adhesions in, importance, [Moglia] 234—ab
after thyroidectomy, 1308
biliary colic and, [Parturier] 1403—ab
blood bilirubin in, [Eufinger & Bader] 1491—ab
blood circulation in, and hypertension, [Liljestrand & Stenström] 456—ab
blood groups in mother and fetus, [Cathala & Le Rasle] 234—ab; [Ohnesorge] 385—ab; [DuBouchet] 1252—ab; [Hirszfeld & Zborowski] 1402—ab, 1953—ab; [Allen] 1656—ab
blood lipoids and, [Tyler & Underhill] 488—ab
blood sugar in mother and fetus, [Hellmuth] 1807—ab; [Revesz & Turolt] 1878—ab
calcium regulation in, [Hetényi & Liebmann] 455—ab
capillaries in, [Pischzek & Schmidt] 1591—ab
chickenpox (fatal) in, [Debré & others] 450—ab
cholesterol metabolism in, [Baumann & Holly] 1315—ab
diabetes in, [Labbé & Couvelaire] 154—ab; [Fitz & Murphy] 306—ab
diagnosis, colostrum sign, [Ballins] 1104—ab
diagnosis, Dienst's test, [Vogel] 1492—ab
diagnosis, early, [Tomb] 312—ab; [Gauss] 1816—ab
diagnosis, early, vaginal stethoscope in, [Falls] 1797—ab
diagnosis, lipiodol, [Heuser] 232—ab

PREGNANCY—Continued
diagnosis, roentgen, of triplets, [Genell] 1731—ab
diagnosis, vaginal bacilli, [Tateyama] 158—ab
diet in, [Mellanby] 1584—ab
dyspareunia in, [Galant] 1256—ab
edema in, [Lendon] 449—ab; [Kaboth] 520—ab
effect of irradiation, [Martius & Franken] 660—ab
epinephrine and, [Váró] 1104—ab
extra-uterine; double tubal, with rupture of both tubes, [Clow] *1979
extra-uterine, Douglas pouch exploratory puncture in, [Zeitlin] 1255—ab
extra-uterine, ectopic, of anomalous fallopian tube, [Steckbauer] *621
extra-uterine, full term, [Rowland] 582—ab; [Hertzenberg] 584—ab; [Le Doux] 1797—ab
extra-uterine, intraligamentous, [Kennedy] 650—ab
extra-uterine, tubal, cause, [Schoenholz] 1325—ab
glucose regulation disturbed in, [Labbé & Cherkil] 1731—ab
glycosuria, [Adlersberg & Porges] 1952—ab
glycosuria and insulin, [Elias & others] 917—ab
glycosuria threshold in, [Faber] 522—ab
hookworm disease in, carbon tetrachloride for, [Insfrán] *735
hygiene, vaginal douches, [Schwarzkopf] 1492—ab
ileus, [Luchs] 1590—ab
leukemia (chronic) and, [Chiari & Dautwitz] 317—ab
metabolism increased in, [Garipuy & others] 1805—ab
mothers beyond 35, 635; [Rennelts] 1591—ab
nephritis in, [Volhard & Fahr] 1660—ab
or ovarian hemorrhage? [Traugott] 1591—ab
periodicity, in Japanese women, 1565
phosphate metabolism in, [Baumann & Holly] 1315—ab
psychoses during, [Strecker & Ebaugh] 1245—ab
pyelitis in, [Luchs] 520—ab; [Hundley] *605; [Williams] 650—ab
rectal cancer and, [Katz & Kaspar] 1807—ab
rectal vs. vaginal examination, [Baum] 1810—ab
reticulo-endothelial system in, [Benda] 1738—ab
shock in, [Bailey & Driscoll] 1797—ab
syphilis in, treatment, [Macqués Bertran & Muñoz Arbat] 587—ab; [Kraul & Bodnar] 1807—ab
syphilis injury of fetus, [Nürnberger] 1738—ab
syphilis (latent) and, [Bertin] 1324—ab
syphilis prevention and, [Solomon] 1578—ab
toxemia, ammonium chloride in, [Mussey] 1393—ab
toxemia, basal metabolism in, [Stander & Peckham] 1656—ab
toxemia, etiology, [Browne] 1802—ab
toxemia, liver function in, [Naujoks] 318—ab
toxemia, vs. hypertension, cardiovascular disease, [Herrick & Corwin] 1793—ab
toxemia, vs. maternal fetal blood interagglutination, [Cathala & LeRasle] 234—ab; [Allen] 1656—ab
triplet, roentgen ray diagnosis, [Genell] 1731—ab
tuberculosis in, [Sergent] 656—ab; [Bridgman & Norwood] 1394—ab
tuberculosis in, artificial pneumothorax in, [Raimondi & González] 453—ab
tumors complicating, myomectomy, 799
urobilinogenuria in, [Schiller & Ornstein] 810—ab
uterus cancer and, [O'Brien] 71—ab
vaginal flora at term, [Neumann] 810—ab
vomiting of, changes, [Drennan & Hicks] 1802—ab
vomiting of, excessive, insulin in, 557—E; [Titus] 969—C
vomiting of, glucose-insulin for, [King] *1417
vomiting of, treatment, [Hardin & Van Wyck] 978—ab
Wassermann test in, [Boas & others] 1258—ab; [Boas & Gammeltoft] 1258—ab
PRESCRIPTION abuse, druggist not liable for, 124
dose calculation in prescribing, [Fantus] *1439
not private document, 886
writing of, [Fantus] *34
PRESERVATIVES, Food: See Food preservatives
PREVENTIVE MEDICINE vs. social insurance, conference on, 1466
PRIVILEGED COMMUNICATION: See also under Evidence
disclosures affecting character, 1791—MI
examination of prisoner, admissibility, 300—MI
professional and other observations, 441—MI
waiver, testimony of consultant, 510—MI
PRIZES, Allegheny County Medical Society, 561
American Association for Advancement of Science, 494
American College of Physical Therapy, 1778
Annali di oftalmologia clinica oculistica, 213
Argentine Biological Institute, 1377
awarded to Professor Gosslo, 884
Boylston, no award of, 1221

PRIZES—Continued
British Medical Association, for research in obstetrics, 1560
Budapest Royal Medical Society, awarded, 1782
Chandler Medal, Professor Parr wins, 877
Charcot, endowed, 563
Cidonio, 213
Cirimione international, 213
Colangeli, assigned to Dr. Scuilica, 213
Darling, for research in malaria, 700
Devoto International, 209
Forlanini, for work on tuberculosis, 47; 885
French Academy of Medicine, 427
gold medal to Dr. Pulido Fernández, 1849
Guido Banti, in pathology, 1377
Harmon Foundation, for manuscripts on public health, 1557
Imperial Academy, 1564
Italian, for insulin research, 497
Italian Pediatric Society, awarded, 212
Joaquin Albarrán, offered Cuban profession, 209
L. Rosenthal, for work on pneumonia, 128
Lallemand, award of, 705
Leonardo Bianchi Foundation, 1563
Leslie Dana Medal, 208; 1402
Ligue contre le péril vénérien, for research on venereal disease, 1846
Nobel, tax stays on, 1706
Priestley Medal, awarded, 1558
Red Cross, for improvement in medical equipment, 1920
Sir Charles Hastings Clinical Prizes for general practitioners, 1634
Walker, to Dr. Gye for cancer research, 1780
PROCAINE-FORMALDEHYDE TEST: See Infectious Diseases
PROFESSOR, assault on, at Buenos Aires, 1637
PROGNOSIS: See also under names of diseases
vital capacity and, 1074—E
PROHIBITION: See also under Alcohol; Moonshine
conference on medicinal wines, U. S., 1300
effect on male death rate, Copenhagen, [Heiberg] 1738—ab
in America and tuberculosis, [Donath] 1175—ab
in Russia, [Dworetsky] 1175—ab
Supreme Court to decide pint in 10 day limit, 1559
PROJECTILE, migration of, [De Saint-Avid & Léonard] 2004—ab
PROPRIETARIES, advertising, Switzerland, 800
Austrian decree on, [Huebner] 1173—ab
in France, 133
PROPRIETARY MIXTURES SYNDICATE, 1566—P
PROSTATE cancer, [Neller & Neubürger] [Hinman] *923
cancer, Roffo neutral red test, [Astraldi & Rivarola] 1102—ab
cancer, surgery, [Morson] 1250—ab
disease, Walker Institute, 644—P
focal infections and, [Walther] 1163—ab
hemorrhage, prostatic bag for, [Barry] *1437; [Swartz] *1518
massage, [Stutzin] 1175—ab
metastasis to, in staphylococcus infection, [Strominger] 1170—ab
obstruction, 464—ab
size, estimating, [Fenwick] 1098—ab
Surgery: See Prostatectomy
tumor, double adenoma, [Ortiz & Gazzolo] 454—ab
PROSTATECTOMY complications, [Schwarz] 1325—ab
hemostatic bag for, [Barry] *1437
perineal, epidural anesthesia for, [Shaw] 1725—ab
perineal, technic, [Syms] *244
poor functional results after, causes, [Herbst] *93
preparation for, [Bumpus] 1164—ab; [Hunt] 1164—ab
suprapubic, [Tengwall] 730—ab; [Maluschew] 1669—ab; [Cattaneo] 1733—ab
suprapubic, hemostasis in, [Hunt] 1579—ab
suprapubic, instrument for introducing hemostatic bags in, [Swartz] *1518
PROSTHESES: See Arm, artificial; Leg, artificial; Hand, artificial
PROSTITUTION, history of police control of, Geneva, 1465
PROTEIN: See also Casein
activation of insulin, [Bertram] 236—ab
amyloidosis from, [Jaffe] 717—ab
anaphylaxis inducing property, [Arloing & Langeron] 517—ab
antigenic specificity vs. irradiation, [Ling] 70—ab
diet, high, effect on kidneys, [Miller] 982—ab; [Jackson & Riggs] 1318—ab
diet in experimental renal insufficiency, [Anderson] 1653—ab; 1770—E
fever, toxic or dynamic? [Reiche] 1877—ab
hypersensitiveness and marasmus, 754—E
hypertension and, [Donaldson] 1579—ab
in Blood: See Blood
in Urine: See Urine
injections and neutrophils, [Hirsch] 1954—ab
maintenance values of, [Rose & MacLeod] 1247—ab
metabolism in nephritis, 1626—E
osteogenic power, [de Bosányi] 445—ab
pancreatic digestion, [Willstätter] 558—ab
Protein Extracts Diagnostic—P. D. & Co., 277
PROTEIN—Continued
reduction in diabetes, 296
requirement, minimum, [Krauss] 917—ab
requirement vs. albuminuria, in nephritis, [Peters & Bulger] 1480—ab
sensitization, 803
shock and vegetative tonus, [Garrelon & Santenoise] 1252—ab
specific dynamic action, [Bahn] 1591—ab
structure of proteins and of living tissues, 753—E
Therapy: See also under names of diseases as, Asthma; Erysipelas; Psoriasis; Syphilis; Urethritis; etc.
therapy in children, [Tur] 521—ab
therapy; milk injections in gynecologic infections, [Rawls] 308—ab
therapy, technic for giving milk injections, 1091
therapy with whole lactic acid milk, [Chapman] 306—ab
PROTEINURIA: See Urine, protein
PROTESTANT EPISCOPAL CHURCH, religious healing, [Paulsen] *1619
PROTOPLASM: See Cells
PROTOZOA in Intestines: See Intestines
PROVERBS, Chinese medical, 475—ab; 674—ab; 876—ab; 1001—ab
PRURITUS, treatment, [Mayr] 657—ab
PSEUDARTHROSIS, congenital, [Maragliano] 915—ab
treatment, alkali, [Platou] 1878—ab
PSEUDOHEMOPHILIA, hereditary, [Willebrand] 1812—ab
PSEUDOLEUKEMIA: See Leukemia
PSORIASIS after neo-arsphenamine treatment, [Van der Hoog] 1670—ab
arthritis in, [Morganstern] 1256—ab
hereditary and familial, [Lévy-Franckel & Juster] 725—ab
monilia in, [Sanders] 379—ab
nonspecific protein in, 1091
sympathetic-endocrine basis of, [Carillon] 1733—ab
PSYCHANALYSIS a cause of suicide, 360
clinics, [Diller] 768—C
PSYCHASTHENIA, depression vs. melancholia, [Breukink] 1326—ab
PSYCHIATRY and habitus, [Kolle] 1809—ab
PSYCHOLOGY and medical research, 129
factors in religious healing, [Paulsen] *1693
in medicine, 347—ab
PSYCHONEUROSES: See Neuroses
PSYCHOPATHIC INFERIORITY, constitutional, connotation of, without psychosis, [Huddleson] *1960
PSYCHOPATHOLOGY, 1611—ab
PSYCHOSES: See also Insanity; Mental Disease
cyclic forms, [Carp] 1492—ab
hammock treatment, [Tramer & Esther] 1805—ab
in pregnancy, [Strecker & Ebaugh] 1245—ab
PSYCOSULPHENE, seeks a place in sun of quackery, 1150—P
PUBERTY: See Adolescence
PUBIC BONE rami fractured, [Gardner] 1801—ab
PUBIOTOMY, errors and dangers, [Niedermeyer] 991—ab
PUBLIC HEALTH: See under Health
PUERPERAL INFECTION: See also Milk-Fever
prevented by using rectal examination, [Koller] 519—ab
skin reactions of toxins from hemolytic streptococci from, [Lash] *1427
streptococcus defeat in, 955—E
streptococcus hemolyticus toxin and antitoxin, [Lash & Kaplan] *1197
treatment, [Razetti] 1585—ab
treatment, mercurochrome, [Robinson] 1660—ab
PUERPERIUM and vaginal bacteria, [Broich] 1255—ab
complications, mesenteric root presses on duodenum, [Robertson] 1869—ab
early retroversion in, [Lack] 1485—ab
Hemorrhage: See Labor, hemorrhage
Insanity: See Insanity
postpartum eclampsia after delivery of triplets, [Cohen & Cohen] *947
pulmonary tuberculosis in, [Sergent] 656—ab
shock in, [Bailey & Driscoll] 1797—ab
PUL-BRO-TU, Kirkpatrick's, 708—P
PULMONARY TUBERCULOSIS: See Tuberculosis, Pulmonary
PULSE volume in labor, [Haupt] 1326—ab
compression sounds of Korotkov, [Korns] 1938—ab
positive centrifugal renous, detection, [Middleton] 1796—ab
with intracranial disease, [Lund] 1738—ab
PUPILS in encephalitis, [Westphal] 454—ab
in somatic and visceral disease, [Byrne] 1247—ab
PURGATIVES: See Cathartics
PURIFICO, Burnside's, 368
PURINE metabolism, [Lindberg] 386—ab
PURPURA, fulminating, [Bullmore & others] 1863—ab
hemorrhagica, treatment, [Fitz-Hugh] 1864—ab
hemorrhagica, in leukemia, [Chauffard & others] 1168—ab; [Weil] 1169—ab
PURPURA—Continued
hemorrhagica, splenectomy in, [Williamson] 1398—ab; [Whipple] 1660—ab; [Harris] 2002—ab
hemorrhagica, thrombocytopenic, 749—ab
pneumococcus extracts produce, [Julianelle & Reimann] 1097—ab
question, [Wendt] 160—ab
splenectomy in, [Rellingh] 992—ab; [Williamson] 1398—ab; [Alrutz & others] 1655—ab; [Whipple] 1660—ab; [Harris] 2002—ab
PUS cells, supravital staining, [Lösecke] 1588—ab
PYELITIS complicating pregnancy, [Luchs] 520—ab; [Hundley] *605; [Williams] 650—ab
congenital acquired, [Conrad] 1243—ab
in female, [Hundley] *603
infection path in, [Lachs] 520—ab
palpation in, [Jungmann] 316—ab
treatment, [Pannewitz] 1408—ab
treatment, bacteriophage, [Zdansky] 317—ab
treatment, hexylresorcinol, [Scott & Leonard] 1243—ab; [McCurry] 1800—ab
PYELOGRAPHY, mediums, [Graves] 581—ab
PYELONEPHRITIS, calcareous, etiology, [Hager] 1248—ab
calculus, and manic depressive insanity, [Kilbane] 1796—ab
PYEMIA after tonsillitis, [Fraenkel] 809—ab
treatment, jugular vein ligation, [Riess] 317—ab
PYLEPHLEBITIS after appendicitis, [Eliason] 1944—ab
PYLORUS obstruction, causes tetany, [Grégoire] 1663—ab
obstruction, nonmalignant, in aged, [Witherspoon] 719—ab
obstruction, sodium chloride in, [Orr & Haden] 1867—ab
occlusion, acute, in stenosis, [Delore & others] 452—ab
spasm, metabolism in, [Vollmer & Serebrijski] 658—ab; 1877—ab
spasm, pathogenesis, [Damaso Rodrigo] 1950—ab
spasm, treatment, [Tobler] 586—ab
stenosis, concentrated feeding in, [Meagher] 910—ab
stenosis, dietetic treatment in infants, [Estella] 1956—ab
stenosis, with acute occlusion, [Delore & others] 452—ab
tumors, accessory pancreas, 1091
PYORRHEA ALVEOLARIS, [Müller] 76—ab
new work on, 121—E
streptococci in, [Thomson] 449—ab
treatment; Amosol declared a fraud, 366—P
treatment, King Laboratories, 644—P
Trichomonas buccalis, [Hogue] 979—ab
PYRAMIDAL TRACT, disease, reflexes in, [Astwazaturow] 590—ab
PYURIA: See Urine, pyuria

Q

QUACK, goes to prison, Berlin, 1706
trial of, Switzerland, 1709
QUACKENBOS, JOHN D., Theosophy, [Paulsen] *1618
QUACKERY: See also Nostrums
Maryland, 123
nostrums and, 362
orificial, 422—E
QUARANTINE, express authority unnecessary, 1391—MI
QUARTERLY REVIEW OF BIOLOGY, 1457—E
QUARTZ LAMP: See under Ultraviolet Rays
QUEEN ELIZABETH FOUNDATION, Belgium, 1639
QUESTIONNAIRES deplored by experimental psychologist, 1706
QUINIDINE in Heart Disease: See under Auricular Fibrillation; Heart
serious reactions after, [Gordon] 1727—ab
QUININE: See also under Malaria
causes urticaria, [Hughes] 1249—ab
Coco-Quinine, 37
effect on blood sugar, [Hughes] 515—ab
intravenous injections, 1229
monopoly, Netherlands, 568
rash, [Zacharias] 1590—ab
resistant lipases, [Löwenberg & Kwilecki] 1407—ab

R

RABBITS, Fever: See Tularemia
RABIES, cause of, 1564
fixed virus, multiplication, [Cornwall & Beer] 1484—ab
from fixed virus? [Syllaba] 729—ab
in Austria, 1850
increase of, Oklahoma, 1845
in dogs in New York, 1139
new law for preventing, New York, 1298
paralysis from fixed virus, [Syllaba] 729—ab; [Cornwall & Beer] 1484—ab
treatment, [van den Hoven van Genderen] 1955—ab
vaccine, phenolized, [Stuart & Krikorian] 514—ab
virus, neural transmission, vs. Negri bodies, [Goodpasture] 651—ab
RACES, chemical differentiation, [Manoiloff] 455—ab
groups in Hawaii, vital statistics of, [Kung] 895—ab

RACHICENTESIS: See Spinal Puncture
RACHITIS: See Rickets
RACK for stomach tubes, [Kantor] *26
RADIATIONS: See also Radium; Roentgen Rays
dosimeter, [Chaoul] 1737—ab
from cod liver oil, [Carrick] 68—ab
nausea, corpus luteum intravenously, [Lafferty & Phillips] 304—ab
tissue reactions to, 1772—E
RADIO aerial, human, 1234
RADIOACTIVE SUBSTANCES, anemias due to, 120—E
RADIODERMATITIS, prevention by ultraviolet ray, (correction), [Andrews & MacKee] 367—C
RADIOLOGY, medical, training in, [Forssell] 1670—ab
RADIOTHERAPY for rodent ulcer, [Hernaman-Johnson] 1329—ab
for gynecologic cancer, [Fürst] 1805—ab
polyradiotherapy of tuberculous peritonitis, [Saidman] 75—ab
RADIUM: See also Radioactive Substances
action on bacteriophage, [Lacassagne & Paulin] 912—ab
action on cancer cell, [Philipp] 810—ab
action on diabetes mellitus, [Sellchiro] 656—ab
applicator for lesions about head, face and neck, [Kennedy] *1907
applicator for stomach cancer, [Menees] *1904
applicator for use in esophagus, [Fitzgibbon] *622
at a distance in cervical cancer treatment, [Ferroux & others] 1487—ab
biologic action, [Cramer] 1173—ab
disinfegration products of, used for skin diseases, [McHutchison & Brown] 1729—ab
Emanation: See Radon
necrosis of bone, [Phemister] 902—ab
no special affinity for cancer tissue, [Lacassagne & Ferroux] 655—ab
Treatment: See also Esophagus, cancer; Lymph Nodes tuberculosis, Uterus, cancer; etc.
treatment, anemia resulting from 498
treatment, deep, with gamma-rays, 1374
treatment, progress, vs. cancer, 1561
treatment, technic, [Daland] *471
uses, 1708
RADIUS dislocation and other anomalies in 4 generations, [Trauner & Rieger] 520—ab
RADON, 893
new uterine screen and introducer for inserting radon tubes into uterus, [Simpson & Flesher] *1005
RAGWEED Combined Pollen Antigen-Lederle, 842
Mixed Ragweed Concentrated Pollen Extract-Swan-Myers, 277
pollen extracts, pollen therapy with, [Black & Moore] *324; [Alles] 1151—C; [Black] 1151—C
RAILROADS, medical examination of employees, 965
physicians, Netherlands, 1086
physicians, work of, [Palthe] 456—ab
psychotechnical examinations of employees, Germany, 292
RAMISECTION: See also Sympathectomy
[Leriche] 1665—ab; [Ranson] *1886
arterial pressure changes after, [Leriche & Fontaine] 1322—ab
phenomena following, [Leriche & Fontaine] 1736—ab
RAMÓN y CAJAL, statue unveiled, 1849
RAPE, pregnancy as evidence, 63—MI
RAT-BITE FEVER, experimental, [Theller] 1724—ab
sodoku, [Lanford] 1583—ab
spirillum cultivation, [Jockes] 379—ab
RAT-POISON, 1715
food poisoning outbreak due to, [Spray] *109
RATS, extermination, 666
extermination and disinfection, 498
mass cancer incidence near where rats abound, [Meyer] 1307—C
RAWSON HOSPITAL enlarged, Buenos Aires, 1085
RAWSON SCHOOL, religious healing, [Paulsen] *1617
RAYNAUD'S DISEASE, arteriole histology in, [Grenet & Isaac-Georges] 1169—ab
bone involvement in, [Monahan] 1796—ab
negative pressure in, [Crichlow] 229—ab, 1163—ab
READING and writing for recumbent, [Alexander] *246
RECKLINGHAUSEN'S DISEASE, [Carr] 654—ab
without tumor formation, [Wise & Eller] *86
RECRESAL, 645
RECTOVAGINAL POUCH: See Douglas Pouch
RECTUM: See also Ureterorectoneostomy
administration by, [Fantus] *1767
cancer, 290
cancer, and pregnancy, [Katz & Kaspar] 1807—ab
feeding by, [Fantus] *1837; [Boas] 1874—ab
feeding by, in gastric ulcer, 1464
gonococcal disease, diagnosis, [Jersild] 1956—ab
proctostasis and constipation, [Strauss] 520—ab
RECTUM—Continued
prolapse, complete, surgery for, [Maes] 303—ab
stricture, diathermy in, [Bensaude & Marchand] 156—ab
RECURRENT FEVER: See Relapsing Fever
RED CROSS Conference, Oriental, 498
Italian, course in hygiene, 1146
Italian, delegates, activities at twelfth International Conference, 213
Italian, work of, in peace times, 885
Pan-American Conference, 1920
RED LIGHT treatment of herpes zoster, [Jacobson] 805—ab, (correction) 1483—ab
REDI, FRANCESCO, centenary, 1637
REFLEX, abdominal, in "acute" abdomen, [Mondolfo] 586—ab
defense, [Juster] 586—ab
facial, Chvostek's phenomenon, [Stargardter] 990—ab
in pyramidal tract disease, [Astwazaturow] 590—ab
oculocardiac, in surgery, [Valerio] 1950—ab
palm-chin, in facial paralysis, [Radovici & Marinesco] 1872—ab
patellar, feminine irritability, 281—E
patellar, irritability of men and women, [Williams] 511—ab
plantar, Babinski sign in toxicoses, [Pezzotti] 1806—ab
regional vegetative, in hyperthyroidism, [Serejski] 1588—ab
tendon and muscle tonus, [Langelaan] 913—ab
tonic neck, in tuberculous meningitis, [Wechsler & Brock] 447—ab
trigeminal, phenomenon, [Palthe] 1165—ab
REHABILITATION and partial disability, 290
RELAPSING FEVER, experimental, arsphenamine in, [Krantz] 1172—ab
endemic in Toledo district, [Zamorano] 1490—ab
epinephrine injections in, [Mishtchenko] 1408—ab
spirochetosis and syphilis, [Kille] 588—ab
therapeutic, incubation period, [Welchbrodt] 77—ab
RELIGIOUS EPIDEMIC in Russia, [Goldbladt] 1807—ab
RELIGIOUS HEALING, [Paulsen] *1519, *1617; *1692
RENSANO, kidney cure, 504—P
REPRODUCTION and diet, [Nelson & others] 1938—ab
RESEARCH libraries, coordination, 1635
endowment for, in pure science, 208
endowment for, at London Hospital, 1143
importance, in educational institutions, [Dodson] 875—ab
medical, 129
medical, bill to establish bureau of medical research, U. S., 426
medical, criticisms on our education policy, [Pusey] *1507
medical, vs. university surgical clinic, [Lewis] *1494
RESPIRATION: See also Dyspnea; etc.
anesthesia in relation to respiratory volume, 51
changes in airplane flights, 1985—E
chemical regulation, 350—E
Cheyne-Stokes', cause of, [Singer] 317—ab
Cheyne-Stokes, in decerebrate dog, [Pachon & Delmas-Marsalet] 1949—ab
"second wind," physiology, 1840—E
type and body, [Hörnicke] 1174—ab
RESPIRATORY AIR CURRENT, medication of, [Fantus] *551
RESPIRATORY TRACT, lower, absorption from, [Corper] *1739
REST, modified hip rest, [Telson] *1347
RESUSCITATION: See also Asphyxia; Carbon Monoxide poisoning; Drowning
by flicking chest with cold wet towel after 15 minutes cessation of vital functions, [Kapur] 654—ab
by injecting caffeine into cisterna, [Kulenkampff] 1811—ab
method, 58
quinidine vs. caffeine, [Gordon] 1727—ab
RETICULO-ENDOTHELIAL SYSTEM, 1786; [Stephan] 1952—ab
anaphylaxis and, [Simitch] 1252—ab
block, transplantation after, [Lehmann & Tammann] 1808—ab
cellular reticulum and, [Möllendorff] 658—ab
in pregnancy, [Bendl] 1738—ab
in preventing infections, [Singer] 657—ab
lipemia and, [Oppenheimer & Fishberg] 148—ab
phagocytosis and, [Zebrowski] 1737—ab
poisons and, [Handel & Rosenzualg] 1325—ab; [Guccione] 1489—ab
water metabolism and, [Jochweds] 317—ab
RETINA, detachment, false, [Belgeri & Lijo Pavia] 383—ab
hemorrhage, after transfusion, [Schaly] 1955—ab
RETRACTOR, convenient pillar, [Haines] *1767
RHEUMATIC FEVER: See Rheumatism, acute articular
RHEUMATISM: See also Arthritis; Fibrositis
acute, and subacute bacterial endocarditis, [Clawson & Bell] 1169—ab
acute articular, causes auricular endocarditis, [Von Glahn] 1479—ab
RHEUMATISM—Continued
acute articular, genius epidemicus, [Magelssen] 920—ab
acute articular, heart block in, epinephrine in, [Sutherland] 1397—ab
acute articular, multiple heart disorders in, [Doumer] 1322—ab
acute articular, in children, treatment, 701
acute articular; rheumatic fever, 38—E; [Swift] 67—ab; [Heyn] 1580—ab
acute articular; rheumatic fever, streptococci in, [Derick & Swift] 1096—ab
aortic regurgitation from, [Harmer] 1728—ab
cardiac complications, [McCrudden] *535; [Sutherland] 1397—ab; [Mavor] 1662—ab
chronic, [Pietranera] 809—ab; [Harvier & others] 1871—ab
chronic, iodine and salicylate in, [de Jong & Wolff] 450—ab
in children, [Portu Pereyra] 225—ab; [McCrudden] *535; 701; [Allan] 1484—ab
International Commission on Rheumatism, 1846
mitral stenosis from, [Merklen & Schneider] 1948—ab
prevention, 1586—ab
specific character, [Bezancon & others] 1804—ab
treatment, iodine-salicylate, [de Jong & Wolff] 450—ab
treatment, Paul's skin inoculation, 138
treatment, Robes' Anti-Rheumatic Injections, 1713—P
treatment, sodium salicylate intravenously, [Carnot & Blamoutier] 581—ab
tuberculous, chronic, [Harvier & others] 1871—ab
RHINITIS, vasomotor, iodine in, [Sternberg & Sugar] 1809—ab
RHINOPLASTY: See Surgery, plastic
RIBS, fracture, traction on sternum in, [Jones & Richardson] 1164—ab
floating tenth, in angina pectoris, [Mester] 1736—ab
lumbar, [Camurati] 915—ab
lumbar, unusual, [Cumming] 909—ab
RICHARTZ, MATTHEW, 1641—P
RICKETS and avitaminosis, [Schmitt] 659—ab
carpal centers development in, [Goldberger & Mellon] 977—ab
constitution and, [Eckstein & Paffrath] 316—ab
Deformities from: See Spine curvature
dentition in, [Blum & Mellon] *677
etiology, and light, [Degkwitz] 236—ab
experimental, [György & others] 1876—ab
growth of infants with, [Variot & Nazarie] 74—ab
in offspring and parasitic disease in mother, [Kawamura & Kasama] 981—ab
incidence in London hospital, [Atkinson & others] 1398—ab
pathogenesis, 1838—E
prevention, cod liver oil-water, [Rekling] 1258—ab
prevention community, [Elliot] 1659—ab
prevention, limitations of cod liver oil, 1913—E
Rachitic Institute of Milan, 496
recurrent, [Hess] 1479—ab
treatment, hays, [Steenbock & others] 1246—ab
treatment, irradiated cholesterol, [Bills] 1246—ab; [Parsons] 1584—ab; [György & others] 1876—ab
treatment, light and effects of vitamin A, 1699—E
treatment, new antirachitic substances, [De Bosanyi] 1162—ab; [Bills] 1246—ab
treatment, spinach, [Chick & Roscoe] 1399—ab; [Boas] 1399—ab
treatment, sunlight and vitamins, [Vollmer] 1407—ab
treatment, ultraviolet irradiation of foodstuffs, [Mackay & Shaw] 722—ab
treatment, ultraviolet irradiation of milk, [Mackay & Shaw] 722—ab; 876—E; [György] 990—ab, 1953—ab; [Steenbock & others] 1246—ab; [Hottinger] 1325—ab
trypsin secretion and, [Lukacs] 1243—ab
wheal formation in, [Pilcher] 978—ab
RIEHL, Professor, retirement of, 1638
RING TEST, in pulmonary tuberculosis diagnosis, [Bacon] 909—ab
RINGWORM fungus, culture, [Burgess] 377—ab
treatment of cow itch, 1386
ROBES' ANTI-RHEUMATIC INJECTIONS not acceptable for N. N. R., 1713—P
ROCKEFELLER FOUNDATION, fund for medical school, Strasbourg, 290; 762
activities in 1925, 1921
gift to Medical School of St. Thomas' Hospital, 1781
ROCKEFELLER MISSION and French efforts to combat tuberculosis, 638
ROCKY MOUNTAIN SPOTTED FEVER, [Garcia] 1806—ab
in Indiana [LaBier] 150—ab
in Montana, 1703
ROENTGEN RAYS: See also Radiations; Radioactive Substances; Radiotherapy
action, biologic, [Nemenoff] 160—ab; [Cramer] 1173—ab
aplastic pernicious anemia from, [Lankout] 522—ab

ROENTGEN RAYS—Continued
burns, deep, excision and tissue shifting for, [Davis] 302—ab; *1432
diagnosis of fetal death, [Tengbergen] 1592—ab
diagnosis of triplet pregnancy, [Genell] 1731—ab
Diagnosis with Iodized Oil: See Iodized Oil Effect: See also Pregnancy, effect of irradiation on
effect, [Lieber] 1591—ab
effect on blood, [Matz] 909—ab; [Epstein] 1101—ab
effect on cancer cells intensified by sugar, 887
effect on cells, [Gassul] 1736—ab
effect on erythrocyte production in cancer and leukemia, [Isaacs] 1159—ab
effect on gastric secretion, [Yugenburg] 160—ab
effect on tissues, [Stephens & Florey] 653—ab
examination without darkness, [Bucky & Stumpf] 78—ab
fluoroscopy in diagnosing stomach cancer, 37—ab
injury, barium sulphate and Portland cement plaster protects against, [Hunt] 651—ab
injury, instances of, 1142
injury, physician's action against hospital for, 1560
laboratory, fatal accident in, [Polgár] 1736—ab
martyr, J. Hall-Edwards, honored, 1708
martyr, Reginald G. Blackall, 48; 565
martyr, Stephen Farago, 431
nausea, corpus luteum prevents, [Lafferty & Phillips] 304—ab
nephritis produced by, [O'Hare & others] 718—ab
sarcoma produced by, [Goebel & Gérard] 913—ab
skin reactions to, [Hawkins & Clark] 981—ab
telangiectases from, ultraviolet ray treatment, [Lane] 1316—ab
Treatment: See Roentgenotherapy
ulcers, ultraviolet ray prevents, (correction), [Andrews & MacKee] 367—C
unification, [Béclère] 1732—ab
value in teaching obstetrics, [Mitchell & MacCharles] 447—ab
yeast and, [Schneider] 1103—ab
ROENTGENOGRAMS, evidence when lost, 442—MI
identification held sufficient, 143—MI
identification necessary, 1314—MI
maneuver to facilitate passage of catheter through markedly tortuous ureter for securing, [Lewis & Carroll] *1333
secondary evidence, depositions, 804—MI
unnecessary, when, 1859—MI
witness may view to refresh memory, 1242—MI
ROENTGENOLOGY, teaching, 1390
German society of, 1994
ROENTGENOTHERAPY: See also under Cancer; and names of various diseases
deep, and bladder cancer, [Gunsett] 1487—ab
dosage, standardization, 1995
dosimeter, [Chaoul] 1737—ab
effect on heart, [Emery & Gordon] 579—ab
high voltage, [Tyler] 606—ab
ROFFO NEUTRAL RED TEST: See Cancer serodiagnosis
ROMAN CATHOLIC CHURCH; religious healing, [Paulsen] *1692
ROSARIO MEDICAL SCHOOL, foreign professors at, 565
ROSENTHAL'S TEST: See Liver function tests
"ROYAL HOSPITALS": "spital sermon," 1781
RUBBER gloves, history of, 59
RUBELLA vs. scarlet fever, 1855; 1856
RUBIN TEST: See under Fallopian Tube
RUGE-PHILLIP VIRULENCE TEST: See Virulence
RUMPEL-LEEDE PHENOMENON, (Stephan] 589—ab
RUST: See Iron rust

S

SACCHARIN, law pertaining to, and sugar, 1229
SACHS, WILLIAM P., 121—E
SACROCOCCYGEAL REGION, chordoma, [Stewart & Morin] 1098—ab; [Argaud & Lostrade] 1731—ab
SACRO-ILIAC JOINT, tuberculosis, arthrodesis for, [Smith-Petersen & Rogers] *26, 806—ab
disease, [Painter] 1864—ab
SACRUM, tumor, pulsating, roentgenotherapy, [Béclère] 913—ab
SAILORS: See Navy; Seamen
SALARIES; saving wage for health officers, 202—E
SALICYLATE: See also Rheumatism, treatment
methyl, poisoning, [Wetzel & Nourse] 1482—ab; 1628—E
SALIVA, elimination by, [Binet] 1170—ab
ammonia nitrogen, determination, [Schultz & Ziegler] 1795—ab
salivary digestion, [Bergelm] 1161—ab; 1288—E
urea in, determination, [Schultz & Ziegler] 1795—ab
SALIVARY GLANDS, calculus, [Edington] 722—ab
syphilis, [Girard & Trigher] 986—ab
SALIVATION after mercury, 1990
SALMON in diet for goiter prophylaxis, [Jarvis & others] *1339
SALOMON'S TEST: See Cancer, serodiagnosis
SALPINGITIS: See Fallopian Tube
SALT and hyperacidity, [Weltz & Kissling] 455—ab
hypertension-inducing action, [Ambard & Cahn] 1100—ab
Iodized, in goiter prevention [Wagner-Jauregg] 79—ab; [Hartsock] *1334
solution, hypertonic, in adynamic ileus, [Ross] 1695—ab
solution, hypertonic, injection for thrombo-angiitis obliterans, [Silbert] *1759
solution intravenously in acute poliomyelitis, [Smith] 1479—ab
solution, perirenal injection in urine incontinence, [Serantes & Montes] 656—ab
solution test, intracutaneous, of circulation in extremities, [Cohen & others] *1677
solution test, intradermal, in juvenile cardiac disease, [Olmstead] 1481—ab
SALVES, [Fantus] *348
compound salve vehicles, [Fantus] *415
SANIPRACTORS and referendum, Washington, 961
SANITATION, revision of International Sanitary Convention, 1145
Italian sanitary mission in Yemen, Arabia, 1228
vital statistics in relation to, 976—MI
SANOCRYSIN: See Tuberculosis, treatment
SAPROPHYTES and tuberculosis, [Wolf] 159—ab
SARCINAE in gastric content and urine, 1931
SARCOID of Boeck, [Frost] 1480—ab
SARCOMA: See also Fibrosarcoma; Nephrosarcoma; under names of organs as Brain; Heart; Pancreas; etc.
cells, irradiated, injection of, effect on tumor growth, [Smith] & others] 70—ab
chicken, etiology, [Murphy] *1270
complicating osteitis deformans, [Camp] 228—ab
experimental, from roentgen rays, [Boebel & Gérard] 913—ab
Mikulicz syndrome in child with, [Fernández & others] 657—ab
osteogenic, bone formation in, [Eising] 1799—ab
rat, blood *pH* in, [Laclau & Rabinovich] 988—ab
rat, roentgen lethal dose for, [Weatherwax & others] 70—ab
somatic origin, [Crowther] 984—ab
spindle-cell, [Beck & Thatcher] 979—ab
surgery, technic for, [Perret] 1732—ab
vital staining, [Gaza] 1406—ab
SAUERKRAUT, raw, in medicine, [Hartmann] 1876—ab
SCALP defects, repairing, [Coleman] 719—ab
gangrene, extensive, after bleaching hair, [Von Berde] 1406—ab
SCAPULA, extirpation, [Pólya] 919—ab
types and heredity, [Graves] 584—ab
SCAR: See Cicatrix
SCARLATINELLA, fourth disease, [Hochsinger] 1256—ab
SCARLET FEVER, [Friedemann & Deicher] 77—ab
amboceptors in, [Villa] 76—ab
antiserum, [Chen] 152—ab
antiserum in erythema nodosum, [Percival] 239—ab
antiserum, use, in Montreal hospitals, [Cushing & Longpre] 1666—ab
Antitoxin: See also Scarlet Fever, treatment
antitoxin in convalescent's blood, [Henry & Lewis] 1663—ab
Caronia's cultures, [Takaki] 1669—ab
Caronia's intracutaneous tests, [Hecht] 521—ab
convalescent serum in, [Skrotzky & Bardakh] 385—ab; [Henry & Lewis] 1663—ab; [Bly] 1726—ab
diagnosis, precipitin reaction in, [Rosenow] *9
Dick test [Silcock] 584—ab; [Izabolinsky & Lipkin] 1257—ab; [Lesné & Dreyfus-Sée] 1665—ab; [Giuffre] 1873—ab
Dick test, analysis, [Lindsay & others] *1191
Dick test and immunity, [Debré & others] 1664—ab
Dick test and immunization in, [Astrowe & Nigro] 653—ab; [Zoeller] 914—ab
Dick test in Belgium, 1144
Dick's toxin, large doses, reaction to, [Bourcart] 915—ab
eruption, after chickenpox and burns, [Herderschée] 522—ab
etiology, [Szirmai & Jacobovics] 1406—ab; [Delcher] 1876—ab
Immunity and Dick test, [Debré & others] 1664—ab
Immunity test, 199
Immunization, [Beresneff] 80—ab; 220; [Astrowe & Nigro] 652—ab; [Popoff] 729—ab; [Zoeller] 914—ab
immunization, results, [Miller] 151—ab
immunization, toxin dosage for, [Young & Orr] *1340
Immunization with convalescents' serum, [Skrotzky & Bardakh] 385—ab
Immunization with toxin detoxified with sodium ricinoleate, [Larson & others] *1090
in Far East, [Swee & Jetmar] 1167—ab
SCARLET FEVER—Continued
intradermal test in, [Ciuca & Manoliu] 988—ab
kidney function in, [Percival & Stewart] 1166—ab
leukocyte reactions in, [Bunting & Thewlis] 1482—ab
multiple cases, [Veldhuyzen & Vos] 80—ab; [Aycock & Eaton] 147—ab
nephritis, [Koch] 237—ab; [Nastasi] 726—ab; [Joe & Williamson] 1166—ab
recurrence, or German measles? 1855; 1856
Schick test and, [Hull] 720—ab
Schultz-Charlton blanching test, [Lindsay & others] *1191
serodiagnosis, Caronia's cultures, [Takaki] 1669—ab
skin reactions in, [Gorter & de Korte] 1955—ab
streptococci, hemolytic properties, [Kniazeff & Alexandrova-Portinagina] 1878—ab
Streptococcus Antitoxin Concentrated, 199; 1131; 1440
Streptococcus Toxin for Dick Test-Lederle, 1213
Streptococcus Toxin-Lederle, 1213
throat infections with Streptococcus scarlatinae without rash, [Stevens & Dochez] *1110
toxin detoxified with sodium ricinoleate, [Larson & others] *1090
toxin in, [Gerbasi] 1171—ab
toxin, pathologic reactions following, [Young & Orr] *1340
transmission, peculiar, [Crowell] *1283
treatment, Dochez serum and convalescent whole blood, [Bly] 1726—ab
treatment, antitoxin, [Zingher] 136—C; [Blake & Trask] 307—ab; [Robb] 722—ab; [Lindsay & others] *1191
treatment, specific antitoxin in, [Robb] 722—ab; [Lindsay & others] *1191
SCARLET RED in infections, [Saxl & others] 1325—ab
SCARPA'S TRIANGLE, aneurysms in, [McNealy & Spivak] 309—ab
SCHICK TEST: See also under Diphtheria
scarlet fever and, [Hull] 720—ab
SCHISTOSOMIASIS, [Tsykalas] 919—ab
in mother and rickets in offspring, [Kawamura & Kasamo] 988—ab
in U. S. and Canada, [Cutler] *816
SCHNEIDER TEST: See Physical Efficiency tests
SCHOLARSHIP: See also Fellowship
J. William White, in surgery, 124
SCHOOL OF COLONIAL PATHOLOGY at Bologna, 704
SCHOOLROOMS, ventilation, 690—E
SCHOOLS, MEDICAL: See also Education, Medical
failure to take care of applicants, [Pusey] *1503
graduate, for pediatricians, 52
liability for malpractice, 1791—ab
offering summer courses in 1926, 1568
organization, [Bevan] *591
recognition, 1542
research in, [Dodson] 875—ab
saving time in, [Wilbur] *1498
teaching positions in preclinical sciences, [Edmunds] 1995—C
university's function in medicine, [Tory] 630—ab
SCHULTZ-CHARLTON TEST: See Scarlet Fever
SCIATICA symptom in sacro-iliac disease, [Painter] 1864—ab
SCIENCE in everyday medicine, 1350—E
preclinical, teaching positions, [Edmunds] 1995—C
pure, endowment for research in, 208
SCIENTIFIC CHRISTIANITY; religious healing, [Paulsen] *1617
SCIENTISTS, Polish and Belgians, relations of, 51
SCLERODERMA and roentgen ray castration, [Schwarz] 1666—ab
of fingers, [Poussepp & Rives] 1730—ab
treatment, 60
SCLEROSIS: See also Arteriosclerosis; Liver, cirrhosis
amyotrophic, from interolivary region, [Marinesco & Draganesco] 1665—ab
Disseminated: See Sclerosis, multiple
multiple, and optic neuritis, [Friedinger] 156—ab
multiple, fever treatment, [Dreyfus & Hanau] 1588—ab
multiple, prognosis in, [Taylor] 1944—ab
multiple, spirochetes in, [Verga] 76—ab
multiple, treatment, [Sauer] 1175—ab; [Buzzard] 1321—ab
of portal vein, [Lehmann] 1668—ab
SCOLIOSIS: See Spine, curvature
SCOPOLAMINE and acid-alkali equilibrium, [Regelsberger] 1171—ab
in posteencephalitic lethargy, [McCowan & others] 1869—ab
SCORBUTUS: See Scurvy
SCOTOMA and ophthalmic migraine, [Pinard] 725—ab
SCROFULA, prognosis, [Connerth] 1808—ab
SCURVY and chronic tuberculosis, [Heymann] 990—ab
blood chemistry of, [Edelstein & Schmal] 1877—ab
experimental, intercellular substances in, [Wolbach & Howe] 717—ab
in infants, [Comby] 154—ab

SCURVY—Continued
pathology, 1214—E
prevention, milk in, [Reyher] 1405—ab
SEAMEN, venereal disease in, treatment, 48
SEASICKNESS, [Desnoes] *319; [Ribolia] 1399—ab; [Abels] 1667—ab
channel fever, [Bohec] 1587—ab
SECRETIONS, Internal: See Endocrine Glands
SEDUCTION, infant as evidence, 1313—M1
SELLA TURCICA: See also Pituitary Body
form, in children, [Gordon & Bell] 149—ab
in abnormal children, [Gordon & Bell] 1943—ab
roentgenographic appearance, changes in, [Camp] *164
SEMASCHKO, visits of, 291
SEMILUNAR BONE, traumatic atrophy, [Fontaine] 1462—ab
SEMILUNAR CARTILAGE cysts, [Allison & O'Connor] 1164—ab
SEMILUNAR GANGLION, nicotine injections into, for intestinal paralysis, [Rosenstein] 1809—ab
SEMINAL VESICLES, vs. focal infections, [Walther] 1163—ab
roentgenography with lodized oils, [Belfield & Rolnick] *1831
stripping, in vesiculitis, [Pomeroy] *1897
SEMMELWEISS, did Lister know about him? 886
SENILITY: See Old Age
SEPTICEMIA, fatal, from performing necropsy, 964, 1636
treatment, chemotherapy, [Walker & Sweeney] 907—ab; [Raiziss & others] 907—ab
treatment, fixation abscess, [Villaret & others] 1664—ab
treatment, immunotransfusion, [Lloyd & Schlesinger] 1398—ab
treatment, mercurochrome, [Stringer] 1163—ab
SEQUESTRUM: See Bone
SERODIAGNOSIS: See under names of various diseases
SEROSITIS, tuberculous, lipiodol diagnosis and treatment, [Flessinger & Lemaire] 1323—ab
SEROTHERAPY, autoserotherapy in chorea, [Dwyer] 1319—ab
of proteinurias, [Tandowsky] *263
SERUM, anaphylaxis, [Bauer & Wilmer] *42; [Stewart] *113; 1234
anaphylactic sensitization persisting for 19 years, [David & Williatte] 1169—ab
antistreptococcus, report on, [Novak] *189
convalescent, in measles, prevention, [Kemp] 1956—ab
convalescent, in poliomyelitis, [Ayer] 294—C; [Fleischner] 295—C; [Draper] 296—C
convalescent, in poliomyelo-encephalitis, [Hylton] 516—ab
convalescent, in scarlet fever, [Skrotzky & Bardakh] 385—ab; [Henry & Lewis] 1663—ab; [Bly] 1726—ab
convalescent, from animals in typhus prevention, [Nicolle & Conseil] 1804—ab
from carcinoma, [Daland] 979—ab
goat serum, 1092
inactivation, [Ohashi] 1491—ab
ion balance in tar cancer, [Rémond & others] 74—ab
lytic action of, on gonococci, [Scaltriti] 154—ab
Møllgaard's, [Opitz & Kotzulla] 1808—ab
mother's, treatment with, [Jundell] 1492—ab
plasma in renal disease, [Daniels] 653—ab
rabbit, hemolytic tests with, [Fiu] 318—ab
shock, [Cayrel] 1171—ab
sickness, spinal fluid changes in, [De Lavergne & Abel] 1664—ab
surface tension, [Beckmann] 1173—ab
Therapy: See Serotherapy
trypsin flocculation in, [Saxl & Kelen] 317—ab
SEWAGE disposal, 1133—E
SEX determination and ovum lipoid content, [Fels] 660—ab
determination, 1849
differences in mental traits, 86—ab; 1371
education, 1783
hormone, female, 691—E; [Loewe & others] 1327—ab
hormone, female, in circulating and menstrual blood, [Frank & Goldberger] *1686
hormone, female, contrast with specific inhibitory hormone of corpus luteum, [Papanicolaou] *1422
hormone, Manollow's, [Popow] 384—ab
Medical League for Sexual Ethics, 1082
offenses against the young, 287
SEXOLOGY, International Congress of Sexology, 1779
SEXUAL INSTINCT, dress as expression of, 1231
relative, [Hartmann] 918—ab; 1147
SHAVING CREAMS, irritation following, 1234; 1568
SHELL SHOCK, 1786
SHENTON'S line, [Renner] 385—ab
SHEPPARD-TOWNER ACT, protest, 421—E; 1458—E
may be continued in force, 426
women's organizations fight for, 1634
SHERMAN, FRANKLIN COLE, Guild of Health, [Paulsen] *1623
SHIELD, cornea, [Adson & Schroeder] *1835
SHOCK: See also Anaphylaxis; Electricity; Protein; Serum; Shell Shock
in pregnant and puerperal women, [Bailey & Driscoll] 1797—ab
SHOE dye poisoning, aniline, [Patek] *944
cleaning preparations, hydrocyanic acid in, 1708
cleanser, cyanide poisoning from, [Ullmann] 1589
SHOULDER dislocation, habitual, [Perthes] 589—ab; [Hustinx] 1812—ab
dislocation, habitual, "tenosuspension" for, [Henderson] 372—ab
pain, left, in chronic appendicitis, [Gray] 579—ab
suppuration, [Barnes] *686
SIDEROSIS: See Pneumonoconiosis
SIGMOID loop transposed to make new bladder, [Strassmann] 810—ab
rupture, pneumatic, [Block & Weissman] *1597
SIGNS, visibility of, 1787
SILICOSIS: See Pneumonoconiosis
SILVER Arsphenamine: See Arsphenamine
cleaning preparations, hydrocyanic acid in, 1708
nitrate, in chronic varicose ulcer, [Bertwistle] 984—ab
nitrate in leukorrhea, [Zweifel] 159—ab
SINUS: See also Frontal Sinus; Lateral Sinus; Nose, accessory sinuses; Nose, paranasal sinuses; etc.
meningioma, [Towne] 1579—ab
of Valsalva, aneurysm, [Sheldon] 985—ab
pericranii—Stromeyer, [Coyn] 301—ab
SINUSITIS, catarrhal, treatment, [Sondermann] 1736—ab
concomitance of bronchiectasis and, [Raffo] 511—ab
pain in, [Béhague & Dufourmentel] 586—ab
rôle in pneumonia, [Felty & Heatley] *1195
SKIN cancer, [Morton] 1483—ab
cancer, caustic treatment, [de Rezende] 1950—ab
cancer, radium treatment, [Daland] *471
colloidal, and congenital ichthyosis, [Kingery] 716—ab
Diseases: See also Dermatitis; Eczema, Herpes; Urticaria; etc.
diseases, [Jadassohn] 1490—ab
diseases, blood sugar in, [Simon] 1874—ab
diseases, disintegration products used for, [McHutchison & Brown] 1729—ab
diseases from physical allergy, [Duke] 1316—ab
diseases, infectious, mercurochrome in, [Young & others] 1724—ab
diseases, roentgenotherapy, [Freund] 1737—ab
diseases, treatment, progress in, [Wise] *1409
diseases, ultraviolet rays in, [Castle] 583—ab
diseases vs. syphilis, [Mackenna] 378—ab; [Skinner] 449—ab
Fungus Infections: See Mycosis
grafting; homoplasty of skin, [Gohrbandt] 1667—ab
grafts, management, [Smith] 1944—ab
grafts, severe laceration of hand with traumatic amputation of 2 fingers, [Loeb] *1345
in diabetes mellitus, [Jürgensen & von Noorden] 384—ab
in puerperal fever, [Lash] *1427
in tuberculosis, [Martenstein & Amster] 1590—ab
innervation, [Müller] 728—ab
lead absorption through, 1286—E
lesions from barbital, [Caussade & others] 380—ab
papilloma, arsenic treatment, [Houston] 654—ab
pleura and, [Sorgo] 1954—ab
reactions, [Flarer] 1950—ab; [Zuccolà] 2005—ab
reactions in leishmaniasis, [Montenegro] 1316—ab
reactions in scarlet fever, [Gorter & de Korte] 1955—ab
reactions to heat and roentgen ray, [Hawkins & Clark] 981—ab
reactions with filtrate of Koch strain of Bacillus tuberculosis, [Herrold & Saelhof] *747
sign in gastric cancer, [Brandenburg] 1874—ab
test, measles toxin, [Ferry & Fisher] *932; 955—E
test, typhoid, [Germinal Rodriguez] 1588—ab
SKULL: See Cranium
SLEEP, effect on blood pressure, [Campbell & Blankenhorn] 649—ab
hygienic aspects, 1231
insomnia, death of physicians from taking drugs for, 288
insomnia a bad habit, 931—ab
narcolepsy, Napoleon's, [Salmon] 382—ab
narcolepsy occasionally a postencephalitic syndrome, [Spiller] *673
promoting sleep, 830—ab
SMALLPOX: See also Alastrim
alastrim, chickenpox and, 498; 1376
in England, 495; 883
in U. S. in 1925, 761; 955—E; 1706; 1773—E
vaccination against, Belgium, 1562; 1925
vaccination among Dyaks, 891—ab
vaccination and paralysis, [Plaut & Jahnel] 1737—ab
vaccination, and Pirquet test, [Ricciardi] 1873—ab
SMALLPOX—Continued
vaccination and toxin-antitoxin, 1092
vaccination, antivaccinationists, Germany, 364
vaccination causes encephalitis, [Kraus & Takaki] 384—ab; [Brouwer] 522—ab
vaccination, committee on, England, 1374
vaccination, erythema multiforme complicates, [Eichenlaub] 1583—ab
vaccination, Iowa Supreme Court sustains board of health on, 1220
vaccination, Italy, 1637
vaccination, Medical Liberty League scout arrested, 696
vaccine, standardization, 800
virus, [Belin] 912—ab
virus and herpes, [Heymann] 1589—ab
virus, filter-passing, 798
SMELL: See also Odor
sense of, [Halliday] 1661—ab
SMOKE inhalation, [Fantus] *623
sunshine, skyshine and, 872—E
SMOKING, effect on breast milk, 1787
SNAILS carry flukes, [Bradley] 1321—ab
SNAKE bite, 645
bite, treatment, 1153
venoms, native Indian alleged antidotes for, [Raimundo] 1101—ab
"SNAPPING" in backbone, 645
SOAP: See also Shaving Creams
germicidal properties, [Walker] 1395—ab
toxins in diphtheria, [Larson & Eder] *998
toxins in scarlet fever, [Larson & others] *1000
SOCIAL MEDICINE: See under Medicine
SOCIETIES, MEDICAL: See also list of Societies at end of letter S
cooperation between public and, 956—E
information bureau for physicians, Chicago Medical Society, 491
SODIUM chloride, action on bacteriophage, [Alessandrini] 518—ab
chloride injection for varicose veins, [Alstrup] 1956—ab
chloride solution intravenously in extensive burns, [Bigger] 1867—ab
chloride treatment of intestinal obstruction, [Orr & Haden] 1867—ab
chloride vs. alkali reserve in variations, [Ambard & others] 1100—ab
citrate, action on bacteriophage, [Stassano & de Beaufort] 655—ab
citrate causes rise of arterial tension, [Renaud] 1100—ab
citrate, indications for, in surgery, [Renaud] 1170—ab
citrate injections, effect, [Joannides] 1481—ab
hydrosulphite vs. methemoglobin and oxyhemoglobin to, [Nicloux & Roche] 988—ab
injection for varicose veins, [Meisen] 80—ab
Phenolsulfonephthalein: See Phenoltetrabromosulfonephthalein
ricinoleate, diphtheria toxin detoxified with, [Larson & Eder] *998
ricinoleate, scarlet fever toxin detoxified with, [Larson & others] *1000
salicylate, epistaxis from, [Rodella] 235—ab
salicylate intravenously, [Carnot & Blamoutier] 381—ab
salts, effect on metabolism, [Greenwald] 1317—ab
Tetraiodophenolphthalein: See Tetraiodophenolphthalein
thiosulphate in arsphenamine dermatitis, [Chen] 807—ab
thiosulphate in mercuric chloride poisoning, [Hess & Massaro] 71—ab
thiosulphate, Loeser's intravenous solution of, 217—P
thiosulphate vs. tartrate injections, [Christopherson & Gloyne] 1099—ab
SODOKU: See Rat Bite Fever
SOLDIERS: See also Veterans' Bureau
National Home for Disabled Volunteer Soldiers, 1462
wounded prisoners of war, 1078—ab
SOLUTIONS, [Fantus] *1439
aqueous, preservation, [Fantus] *1524
SOUP, cream, 437
SPAHLINGER TREATMENT: See Tuberculosis, treatment
SPARTEINE, action, mechanism, [Delas & Soula] 452—ab
SPASM reducing action of glucose, [Handovsky] 521—ab
prolonged vascular, after trauma, [Finaly] 1811—ab
SPASMOPHILIA: See also Tetany
[Stoeltzner] 1590—ab
blood calcium in, in 5 week old infant, [Griffith] *828
etiology, [Lesné & Turpin] 585—ab
wheal formation in, [Pilcher] 978—ab
SPECIALIST, choice of, 566; (correction) [Schut] 1384—C
clinician of future, [Herrick] *1
in hygiene, training of, in Uruguay, 1560
title of, 1562
SPECIALTIES, hospitals providing approved residencies and courses in, *1063
SPECTACLES: See Glasses
SPEECH defects in psychoneurotics, [Covey] 229—ab
stammering, psychogenesis of, [Clark] 1581—ab
without larynx, [Burger] 722—ab
SPERM, immunity to, [Bodnár & Kamniker] 454—ab

SPERMATOXIN, physiologic effects, [Oslund] *1755
SPERMATOZOA, antigenic effect, [Fogelson] 1660—ab
SPHENOPALATINE GANGLION: See Meckel's Ganglion
SPHINCTER, artificial, for hernia, [Hans] 236—ab
SPIDER venom, 1709
  poisoning, [Bogen] *1894
SPINACH, antirachitic value, [Chick & Roscoe] 1399—ab; [Boas] 1399—ab
SPINAL CANAL roentgenography, danger from lipiodol injections, [Sharpe & Peterson] 1096—ab
  injections, tunica vaginalis as test object, [Lanz] 1875—ab
SPINAL CORD, cervical, [Carlill & Carling] 807—ab
  chordotomy for gastric crises, [Sicard & others] 586—ab
  compression, [Bothenberg] 1247—ab
  compression by tumor, [Mixter] 580—ab
  degeneration and anemia, [Evans] 153—ab; [Reese & Beigler] 1578—ab
  embolism, [Chacko] 1870—ab
  hematomyelia in caisson disease, 52
  hemorrhage, extradural, [Reid & Kennedy] 310—ab
  in pemphigus, [McGlasson & Keller] 376—ab
  injury, acute, spinal block in, [Coleman] 393—ab
  surgery, German Surgical Society discusses, 1926
SPINAL PUNCTURE, [Korbsch] 1954—ab
  headache, [Greene] *391; [Alpers] 447—ab
  in acute apoplexy, 60
  in advanced meningococcus meningitis, [Peet] *1818
  in cranial injury, [Munro] 512—ab
  in cranium fracture, [Hanson] *1689
  in intracranial hemorrhage in new-born, [Sharpe & Maclaire] *332
  technic, [Greene] *391
SPINE, anomalies, congenital, [Buckell] 378—ab
  arthritis, nontuberculous, [Valtancoli] 916—ab
  curvature, [Fraenkel] 317—ab
  curvature, in rickets, [Engel] 236—ab
  curvature, treatment, [Gruca] 317—ab
  curvature, turnbuckle joint for, [Pease] *1282
  echinococcosis, causes compression myelitis, [Hines] 1482—ab
  fracture, [Taylor] 1378—ab
  fracture and dislocation, [Haugseth] 1878—ab
  fracture, treatment, [Mülleder] 1172—ab
  "snapping" in, 645
  spondylitis, Albee operation in, [Glorgacopulo] 383—ab
  spondylitis, gonococcus, [Coutts] 1951—ab
  syphilis, of pseudotumor form, [Sicard & others] 987—ab
  thyroid metastasis to, [Simpson] 1943—ab
  tuberculosis, ankylosing operations on, [Ely] *1748
  tuberculous spondylitis, bone implants in, [Kipnis] 1172—ab
  tumors, cord compression by, [Mixter] 580—ab
  tumors, roentgenotherapy, [Schaeffer] 452—ab; [Bothenberg] 1247—ab
SPIRITUALISM, Committee report of Journal of Abnormal and Social Psychology on, 761
SPIRITUALISTS, religious healing, [Paulsen] *1618
SPIROCHETES in multiple sclerosis, [Verga] 76—ab
  isolated from sputum, [Ribierre & Kermorgant] 655—ab
  pure cultures, [Reiter] 1590—ab
  rat, 430
  relation to abnormal bacteria flagella in cultures, [Noguchi] *1327
  relation to pulmonary gangrene, 1228
SPIROCHETOSIS, [Steiner & Steinfeld] 1667—ab
  bronchial, [Alvarez López] 382—ab; [Fernandez] 382—ab
  in horses in Argentina, [Dios & Zuccarini] 1171—ab
  intestinal, [Sáenz] 916—ab
  pathology and therapy, [Steiner & Schauder] 236—ab
  pulmonary, [Ribierre & Kermorgant] 655—ab; 1228
SPLANCHNOPTOSIS, congenital, [Martini] 1404—ab
SPLEEN, abscess, from typhoid, [Morel & others] 1730—ab
  absence; mesenteric lymph glands function as spleen, [Mole] 910—ab
  anemia pathogenesis and, 706
  autolysis, liver lesions secondary to, [Fleisinger & others] 725—ab
  cholesterogenous property, [Abelous & Soula] 1664—ab
  contractility, [Pagniez & others] 381—ab
  disease, epinephrine test in diagnosis, [Hittmair] 521—ab
  enlarged wandering, [Sen] 654—ab
  Extract: See also Tuberculosis, treatment
  extract, effect on blood, [Shapiro & Frankel] 906—ab
SPLEEN—Continued
  extract treatment of itching, [Mayr] 657—ab
  lipoid containing cells in, in diabetes, [Warren & Root] 1479—ab
  lipoid containing cells in, in splenomegaly, [Schiff] 1875—ab
  methemoglobin and, [Frey] 454—ab
  nitrogen metabolism and, [Marino] 1489—ab
  oncograph for, [Tournade & Chabrol] 74—ab
  physiology, [Barcroft & others] 72—ab
  roentgen irradiation in asthma, [Waldbott] 149—ab
SPLENECTOMY: See also Purpura
  effect on blood and iron metabolism, [Asher] 454—ab
  erythrocytes after, [Roese] 521—ab
  for splenic anemia in children, [Ashby & Southam] 1320—ab
  in acholuric jaundice, [MacErlean] 807—ab
  in endocarditis, [Escudero & Merlo] 76—ab
  in hemolytic icterus, [Hanneman] 723—ab
  in splenomegaly, [Guazon] 71—ab
  mortality, [Mayo] 1796—ab
SPLENOMEGALY, blood volume with, [Greppi] 1103—ab
  in jaundice and normal leukocyte count, [Castro Emía] 1404—ab
  in measles, [Bleyer] 977—ab; 1216—E; [Fort] 1567—C
  in tonsilitis, [Fort] 1567—C
  lipoid cells in spleen with, [Schiff] 1875—ab
  of Gaucher type, [Bloom] 651—ab
  splenectomy in, [Guazon] 71—ab
  surgical treatment, [Troell] 1679—ab
SPLINTS, lung, [Wingfield] 723—ab
  thoracic, for pulmonary tuberculosis, [Howell] 305—ab
SPONDYLITIS: See Spine, spondylitis
SPOROTRICHOSIS, [Carter] *1751
SPUTUM, examination in so-called closed tuberculosis, [Szucs] *946
  fungus in, [Mathur & Zutshi] 72—ab
  microscopy, [Liebmann] 1253—ab
  spirochetes isolated from, [Ribierre & Kermorgant] 655—ab
SQUINT: See Strabismus
STAIN, Blood: See Blood stain
  Giemsa, substitute for, [French] 1097—ab
  gram, 1308
  mercurochrome, removal of, 1642
  methylene azur, for nerve cells, [Proescher & Arkush] 1098—ab
  Romanowsky, buffered water for, [Bálint] 1173—ab
STAINING flagella, 1235
  acid-resisting bacilli in milk, method, [Fontaricus] 599—ab
  of intercellular substance, [Petrie] 1321—ab
  supravital, of pus cells, [Lösecke] 1588—ab
  tubercle bacilli, [Poiré & Carranza] 809—ab; [Corper] 1657—ab
  vital, and transplantation, [Lehmann & Tammann] 316—ab
  vital, in experimental tuberculosis, [Jaffe] 1315—ab
  vital, of sarcoma, [Gaza] 1406—ab
STAMMERING: See under Speech
STAPHYLOCOCCUS Acne vaccine, mixed, omitted from N. N. R., 294—P
  infection, metastasis to prostate in, [Stromінger] 1170—ab
  infection, chemotherapy, [Raiziss & others] 907—ab; [Saxl & others] 1325—ab
  vaccination against, oral, [Korobkova & Rosanova] 730—ab
STARVATION: See also Fasting; Hunger
  action on endocrine glands, [Ichok] 75—ab
  effect on activity, [Hoskins] 69—ab
  fat decomposition in, [Frank] 657—ab
  treatment for epilepsy, [Karger] 1667—ab
STATE BOARD, Federation of State Medical Boards, preliminary program, 203
  Federation of State Medical Boards, progress, [Rodman] 956—ab
  hindrances to university action in medical education, [Shanklin] 694—ab
  statistics for 1925, 1533; 1551—E
  Wisconsin's basic science law, [Guyer] 1077—ab
STATE BOARD REPORTS
  Alabama, 972
  Arizona, 1092
  Arkansas, 895
  California, 596; 1386; 1932
  Colorado, 297; 1236
  Connecticut, 710; 1856
  District of Columbia, 139; 895; 1997
  Idaho, 438
  Illinois, 139
  Kansas, 1236
  Kentucky, 139; 646
  Maine, 60; 804
  Maryland, 894
  Massachusetts, 221
  Michigan, 573; 1716
  Minnesota, 438; 1787
  Missouri, 221; 1857
  New Hampshire, 1997
  New Jersey, 221
  North Carolina, 369; 438
  North Dakota, 1153
  Ohio, 574; 972
  Oklahoma, 221
  Oregon, 1092
  Pennsylvania, 1472
STATE BOARD REPORTS—Continued
  Rhode Island, 221; 1092
  Utah, 1309
  Vermont, 1153
  Virginia, 60; 710
  Washington, 297; 1309
STATE MEDICINE: See Medicine, state
STATUS LYMPHATICUS: See Lymphatism
STEAM Cautery: See Cautery
STEERE'S ELIXIR AMMONIUM SALICYLATE not accepted for N. N. R., 1383—P
STEERE'S ELIXIR ASPIRIN COMPOUND not accepted for N. N. R., 1383—P
STELLATE GANGLION and thoracic duct, [Minkin] 520—ab
STERILITY in male, [Hagner] 302—ab
  from ovarian disorder, roentgenotherapy, [Caufman] 988—ab
  treatment, intra-uterine transplantation of ovary, [Serdukoff] 1805—ab
STERILIZATION, SEXUAL, for preventing conception, ethics, 59
  of criminals, justification, 1639
  of mental defectives, New Zealand, 884
  of mental defectives, England, 564
  of unfit, 1229
  Virginia statute valid, 1796—MI
STERILIZATION, SURGICAL, with arsphenamine, [Prigge] 1406—ab
STERNUM, osteomyelitis, [Wilensky & Samuels] 1245—ab
  xiphoid process absent in congenital syphilis, [Sézary & others] 987—ab
STETHOSCOPE, discoverer; Laënnec centenary, [Fossier] 802—C
  chest piece, combined, [Sprague] *1909
  vaginal, for early diagnosis of pregnancy, [Falls] 1797—ab
STILL'S DISEASE: See Arthritis
STOERK, death of, 887
STOFFEL OPERATION: See Paralysis, spastic
STOMACH: See also Gastro-Intestinal Tract
  Achylia: See Achylia, gastric
  acidity, [Silberstern & Pirk] 158—ab; [Silverman & Denis] 1315—ab; 1328—E
  acidity, and urine *pn*, [Ackman] 225—ab
  acidity, hydrochloric acid in pernicious anemia, [Taubmann] 1254—ab
  acidity, hyperacidity and salt, [Weitz & Kissling] 455—ab
  acidity, hyperacidity, antacids for, [Silberstern & Pirk] 158—ab
  acidity, hyperchlorhydria vs. motility, [Le Noir & Sarles] 1402—ab
  acidity in syphilitic children, [Dorne & others] *267
  acidity vs. alcohol, [Leddig] 1171—ab
  acidity with different localizations of gastric ulcers, [Loktionowa] 1171—ab
  air bubble, deformity, [Buckstein] *1834
  arteries, abnormal, hemorrhage from, [Delore & others] 914—ab
  bacteriology, [Bitter & Löhr] 1254—ab
  cancer, [Balfour] 373—ab; [Hannasen] 730—ab; [Shuman] *1127
  cancer, after gastrojejunostomy, [Beatson] 722—ab
  cancer, air bubble deformity in, [Buckstein] *1834
  cancer, basal metabolism with, [Bonorino Udaondo & others] 157—ab
  cancer, diagnosis, 751—ab
  cancer, fluoroscopic diagnosis, 37—ab
  cancer, gastrectomy for, [Hartmann] 912—ab
  cancer, intragastric radium treatment, [Menees] *1904
  cancer, partial gastrectomy in, [Horsley] *664
  cancer, permanent cures, [Hayem] 724—ab; [Blodnitz] 918—ab
  cancer, retrogression, [Erkes] 385—ab
  cancer, serologic test for, [Roccavilla] 1663—ab
  cancer, skin sign in, [Brandenburg] 1874—ab
  cancer, surgical prognosis in, [Pauchet & Hirshberg] 585—ab
  cancer, vs. ulcer, [Stewart] 310—ab
  cardia, rupture by dilator, [Maydl] 1668—ab
  cardiospasm and concomitant esophageal diverticulum, [Fitzgibbon] *1614
  cardiospasm, esophagus dilated in, [Emerson] 808—ab
  contents, examination, contrast test meal, [Bársony & others] 158—ab
  contents, examination, test meals, [Kramer-Petersen] 1326—ab
  contents, fractional analysis, [Isaac-Krieger] 1875—ab
  contents, sarcinae in, 1931
  contractions, hunger, [Rogers & Martin] 1938—ab
  Crises: See Tabes Dorsalis
  diseases, diagnosis, [Escudero] 1951—ab
  diseases, diet in, [Molnar & Porges] 158—ab
  disorders, with tetany, [Langenskiold] 1670—ab
  diverticulum with ulcer, [Moutier & Parcher] 855—ab
  function test, [Bergman] 1103—ab
  function test, atropine, [Stranz] 728—ab
  function vs. atropine, [Mitrovitch] 1402—ab
  hair ball, recurrent, [Harris] 232—ab
  hemorrhage from abnormal vascularization, [Delore & others] 914—ab
  hour-glass, [Halbertsma] 1070—ab
  inflammation, roentgen signs, [Bassler] 1938—ab

STOMACH—Continued
innervation, [Thomsen] 1956—ab
leather bottle, and syphilis, [Strauss] 384—ab
leukopedesis into, [Loeper & Marchal] 75—ab; [Mauro] 1253—ab
motility, study of, 1457—E; 1838—E
motility vs. hyperchlorhydria, [Le Noir & Sarles] 1402—ab
motor disturbances, slight, [Weitz & Vollers] 1809—ab
muscle depression and, [Bársony] 237—ab
pain, [Miller] 1319—ab
pain, chronically recurring, in children, [Poverud] 1258—ab
papaverin effect on, [Bársony & Friedrich] 158—ab
physiology, clinical, [Bloomfield & Keefer] 1936—ab
pituitary extracts and, [Schoendube & Kalk] 917—ab; 1405—ab
response to food, [Hawk & others] 1796—ab
roentgen study, in infant, [Rotz] 314—ab
salivary digestion in, [Bergelin] 1161—ab; 1288—E
secretion, [Arnoldi & Schechter] 236—ab; [Iwanoff-Gluchowa & Sawschinsky] 589—ab
secretion after exertion, [Delhougne] 917—ab
secretion and diuresis, [Arnoldi & Schechter] 1952—ab
secretion and thyroid, [Lewit] 521—ab
secretion, fasting, in infants, [Wolowik] 589—ab
secretion, humoral mechanism in, [Ivy & others] 68—ab; [Ivy & Farrell] 68—ab
secretion, hyposecretion, treatment, [Jarotzky] 76—ab
secretion in tuberculosis, [Delhougne] 1588—ab
secretion, intestinal phase, 1289—E
secretion, normal, [Dahl-Iversen] 1665—ab
secretion, paroxysmal hypersecretion, [Billmann] 80—ab
secretion (juice), study of, [Hubbard & Lichty] 375—ab
secretion vs. pituitary extracts, [Schoendube & Kalk] 917—ab
secretion vs. roentgen rays, [Yugenburg] 160—ab
secretion vs. subtotal gastrectomy, [Portis & Portis] *836
secretion vs. thyroid extract, [Truesdell] 1797—ab
secretory disorders, serum bilirubin in, [Arnoldi & Schechtel] 1254—ab
Spasm: See Gastro-Intestinal Tract, spasm; Pylorus, spasm; Stomach, cardiospasm
studies on, [Stuber & Nathansohn] 917—ab
Surgery: See also Gastroduodenostomy; Gastro-Enterostomy; Gastrojejunostomy
surgery, [Madiener] 919—ab; [Balfour] 1163—ab
surgery; extirpation of roadway, [Bauer] 1808—ab
surgery; gastrectomy for cancer, [Hartmann] 912—ab
surgery; new gastrostomy technic, 1230
surgery, partial gastrectomy, [Horsley] *664
surgery; partial gastrectomy with telescopic anastomosis, [Babcock] 1666—ab
surgery; resection for ulcer, [Carter] 580—ab
surgery; resection, ulcer recurrence after, [Friedemann] 79—ab
surgery; subtotal gastrectomy vs. secretion, [Portis & Portis] *836
syphilis, [Widerøe] 920—ab
tonus and temperature, [Weitz & Vollers] 237—ab
Ulcer: See Peptic Ulcer
vagus stimulation effect on, [M'Crea & others] 233—ab
volvulus, [Helsingen] 920—ab
STOMACH TUBE administration, [Fantus] *1690
electrometric, [Unger] 1874—ab
rack for, [Kantor] *269
STOMATITIS, mercurial, 1090
STOVARSOL: See Syphilis, experimental
STRABISMUS; family of squinters, [Rodin] *1613
treatment, [Meller] 1256—ab
STREAM Pollution: See Water pollution
STREETS, city, measures to combat noise on, 52
signs, visibility of, 1787
STREPTOBACILLUS monilliformis cause multiforme erythema, [Levaditi & others] 1489—ab
STREPTOCOCCUS, antistreptococcic serum, erysipelas, [Birkhaug] *1411
antistreptococcus serum, report on, [Novak] *189
antistreptococcus serum, report of Council on Pharmacy and Chemistry, 417
biology, [Stevens & Dochez] 1800—ab
blanching phenomenon, [Zlatogoroff & Derkatsch] 1596—ab
defeat in measles, erysipelas and puerperal sepsis, 955—E
goiter and, [Cantero] 582—ab
hemolytic, in tonsils, [Pilot & Tumpeer] 977—ab
hemolytic, specific substance extracted from, [Hirsch] 378—ab
hemolytic, toxin and antitoxin from puerperal fever, [Lash & Kaplan] *1197
hemolytic, toxin from puerperal fever and scarlet fever, [Lash] *1427

STREPTOCOCCUS—Continued
immunization, local, [Brocq-Rousseu & others] 808—ab
immunization, preventive, [Louros] 159—ab
in acute rheumatic fever, [Derick & Swift] 1096—ab
in pyorrhea alveolaris, [Thomson] 449—ab
infection of nares, treatment, [Montgomery & Culver] 652—ab
infection, precipitin reaction in, [Rosenow] *9
localization, elective, [Haden] 1867—ab
scarlatinae, throat infections with, [Stevens & Dochez] *1110
species, [Lehmann] 1171—ab
Streptococcus Vaccine omitted from N. N. R., 294—P
toxin in scarlet fever, [Gerbasi] 1171—ab
viridans autovaccine in Still's disease, [Reimold & Stoeber] 1737—ab
virulence, and abortion treatment, [Kuster] 919—ab
STREPTOTHRICOSIS, pulmonary, [Giddings] 1583—ab
STRONTIUM lactate specific against tetany, [Swingle & Wenner] 903—ab
STROPHANTHIDIN, emetic action of, [Dresel & Sollmann] 1725—ab
STROPHANTHUS, potency, [Ward] 2002—ab
STROPHULUS, peptone treatment of, [Pasteur Vallery-Radot & Blamoutier] 1949—ab
STUDENTS, health, at "civic" universities, England, 48
honor roll of, who fell in the Great War, 52
STUDENTS, MEDICAL, necessity of getting them from the country, [Pusey] *1504
apprenticed to physicians, at University of California, [Kerr] 1864—ab
quality, [Pusey] *1505
statistics at Prussian universities, 1148
strikers and, London, 1923, 1
SUBARACHNOID Hemorrhage: See Meninges hemorrhage
SUCCUS CINERARIA, 220
SUGAR, corn sugar as preservative, 494
as food, 628—E; [Wiley] 1306—C
in gonorrheal urethritis, [Potter & Redewill] 1867—ab
in preparation for operations, [Chevrier] 1170—ab
Intensities roentgen ray action on cancer cells, 881
law pertaining to, 1229
tolerance vs. thyroid feeding, [Marks] 72—ab
SUGGESTION in therapeutics, 1562; 1841—ab
psychologic factors in religious healing, [Paulsen] *1693
SUICIDES after war, [Freudenberg] 990—ab
in Germany since the war, 800
psychoanalysis cause of, 360
SULPHARSPHENAMINE intravenously in syphilis, [Lautman] 1316—ab
Sulpharsphenamine-Mallinckrodt, 199
SULPHEMOGLOBINEMIA, [Garrod] 911—ab
SULPHOCYANATES, pharmacology, [Nichols] 67—ab
SULPHUR increase after suprarenalectomy, [Loeper & others] 1731—ab
metabolism, [Wilson] 1398—ab
passage from effusions into blood, [Loeper & others] 987—ab
pharmacology, [Bürgi & Gordonoff] 1590—ab
SUNLIGHT, protection of head against, [Corson] 985—ab
sunshine and skyshine, 872—E
SUPERSTITIONS, medical, in Java, [Bier] 238—ab
SUPPOSITORIES, [Fantus] *1768
urethral, [Fantus] *1983
SUPRA-ORBITAL REGION, surgery, [Johnson] *14
SUPRARENALS bronzing and blood sulphur, [Loeper & others] 1401—ab
cortex, hypertrophy, compensatory, [MacKay & MacKay] 1800—ab
cortex vs. thyroid and thymus, [Marine] 1482—ab
exercise and, [Vincent] 233—ab
Extract: See Epinephrine
fatty transformation, in melanoderma, [Loeper & Ollivier] 1486—ab
insufficiency, insulin in, [Marañon] 452—ab
insufficiency with excessive or perverted pancreas function, [Gougerot & Peyre] 451—ab
removal, sulphur increase after, [Loeper & others] 1731—ab
self-control and inhibition in, [Cramer] 2003—ab
tissue, operative reduction of, for cancer, [Stephan] 1952—ab
transplantation, [Bodinger & others] 1798—ab
SURGEON GENERAL'S report, excerpts from, 208
SURGEONS, bronze cast of surgeon's hand, 1561
letters of historical interest, 1810—ab
SURGERY: See also Cicatrix; Dressings; Instruments; Suture; and under names of organs and regions
acetonuria before and after, [Cardini & Martinez] 453—ab
aspirating devices, [Ferguson] *1283
blood pressure changes in, [Schaefer] 2005—ab
blunders in, [Perthes] 1810—ab; [Hesse] 1810—ab

SURGERY—Continued
clinic, university, [Lewis] *1493
dangers in, [Hesse] 1810—ab
dental, hemophilia in, [Park] 230—ab
fatal explosion in boy's mouth during, 129
German Surgical Society, 1926
incisions, abdominal, postoperative rupture, [Freeman] 374—ab
International Congress of Surgery, 1375; 1993
judgment in, [Fairchild] 1864—ab
morbidity, cooperation reduces, [Easterman] 1163—ab
mortality, [Willis] 1659—ab
oculocardiac reflex in, [Valerio] 1950—ab
operating room illumination, [König] 1737—ab
orificial, 422—E
orthopedic, diagnosis in, [Ober] *1813
otorhinolaryngologic, epinephrine in, [Laurens] 233—ab
plastic, on nose by Argentine method, [Ivanissevich] 586—ab
plastic, skin flap cover for projecting intestine, [Steinberg] 1096—ab
plastic, of supra-orbital region, [Johnson] *14
Postoperative Complications: See also Bronchitis; Lungs, infection; Pneumonia; postoperative
postoperative complications and constitution, [Schnitzler] 659—ab
postoperative nondiabetic acidosis, [Fickenwirth] 318—ab
postoperative phlebitis, blood coagulation in, [Chauvin & others] 1731—ab
postoperative pulmonary abscess, [Holman] 1245—ab
preoperative treatment, 799
reconstructive, in congenital absence of arms, [Mock] *541
risk, cardiovascular, [Phelps] *1824
risk in, 1926
society, Switzerland, 800
sodium citrate in, indications, [Renaud] 1170—ab
sugar in preparation for, [Chevrier] 1170—ab
technic in genito-urinary surgery, [Clark] *1189
ultraviolet rays in, [Masmontell] 381—ab
SUTURE material for conjunctival wounds, 1472
material, serous, and peptic ulcer, [O'Conor] 378—ab
SUTURER, ever-ready, [Marbel] *1980
SWAB, overlooked, 211
SWIFT'S DISEASE: See Acrodynia
SWIMMING POOL conjunctivitis, 966
sanitation and vaginal smears, 1153
SWINE ERYSIPELAS in man, [Klauder] *536; [Postma] 1669—ab
SYMPATHECTOMY: See also under Angina Pectoris
cervical, and thoracic duct, [Minkin] 526—ab
cervical, heart condition after, [Jonnesco & Ionesco] 517—ab
cervical, phenomena following, [Leriche & Fontaine] 1732—ab; [Cutler & Pine] *1972
cervicothoracic, for trophic and gangrenous lesions, [Diez] 1486—ab
effect on spastic paralysis, [Davis & Kanavel] *1860
in arteritis obliterans, [Cain & Hamburger] 1948—ab
in asthma, [Rohde] 1807—ab
in spontaneous gangrene, [Pieri] 518—ab; [Stradin] 1172—ab
lumbar-sacral, for trophic and gangrenous lesions, [Diez] 1486—ab
periarterial, [Winslow] 303—ab; [Pieri] 518—ab; [Vilardell] 1101—ab; [Holst] 1258—ab; [Mosser & Taylor] 1483—ab; [Gurewitsch] 1491—ab; [McNealy] *1968
periarterial, femoral, sciatic nerve injection substitute for, [Taylor & Rice] *191
periarterial, for lumbar pains, [Bittmann] 1487—ab
periarterial, improved technic, [Camera] 1403—ab
periarterial, in epilepsy, [Tinel] 518—ab
periarterial, in leg ulcer, [Leyva Pereira] 586—ab
periarterial, in surgical tuberculosis, [Fontaine] 1872—ab
periarterial, in varicose ulcers, [Bonani] 156—ab
periarterial; nerves of arteries, [Hirsch] 1254—ab
pericarotid, in epilepsy, [Bojovitch] 314—ab
sympathetic nervous system anatomy and, [Ranson] *1886
sympathetic nervous system physiology and, [Forbes & Cobb] *1884
vasodilatation following, [Brown & Brownlee] 649—ab
SYMPHYSEOTOMY, subcutaneous, [Ostrčil] 318—ab
SYNOVIAL FLUID, physiology, [Cajorle & others] 1160—ab
SYNOVITIS of knee, [Löwen] 1810—ab
SYPHILID and lupus, [Dumolliard] 1401—ab
nonspecific protein therapy, [Weirauch] 1727—ab
SYPHILIS: See also Chancre; Chancroid; Syphilid; Venereal Diseases, and under names of organs and diseases
abortion and, [Buschke & Gumpert] 1104—ab
aortic regurgitation from, [Harmer] 1728—ab

SYPHILIS—Continued
blood changes in, [Hecht] 520—ab
blood cholesterol in, [Rosen & Krasnow] 1724—ab
blood in, [Rueda] 727—ab
cerebrospinal fluid colloidal gold curve in, [Wendt] 918—ab
cerebrospinal fluid *ph* in, [Israelson & Krizman] 585—ab
clinic, statistics, Switzerland, 567
complications, alopecia, [Wile & Belote] 1724—ab
complications, gastric crises, [Sicard & others] 586—ab
complications, leukoderma, [Shelmire & Calloun] *1429
complications, liver disease, [Dumitresco-Mante] 380—ab; [Zieler] 918—ab
complications, paroxysmal hemoglobinuria, [Traub] 305—ab
Congenital: See also Syphilis in children
congenital, [Fischl] 657—ab
congenital, and irritation, [Fischl] 1406—ab
congenital, anemia in, [Frank] 658—ab
congenital, blood in, [Rueda] 727—ab
congenital, chronic bronchopneumonia in, [De Jong & Lestocquoy] 1170—ab
congenital, endocrine disorder in, [Cedercreutz] 386—ab
congenital, gumma as primary sore from syphilis acquired in, [Montpellier] 1401—ab
congenital, hydrocele in, [Gallo] 452—ab
congenital, in twins, [Cassel] 455—ab
congenital, liver cirrhosis in, [Simpson] 980—ab
congenital, pes cavus of, [Goff] *392
congenital, polyarthritis in, [Nobécourt] 1872—ab
congenital, prevention, [Boas] 991—ab
congenital, xiphoid process absent in, [Sézary & others] 987—ab
drug epiphenomena in, [Auramowitz] 304—ab
drugs used in, multiple intolerance for, [Gougerot] 1402—ab
endocrine glands in, [Cedercreutz] 386—ab; [Vasilieva] 1955—ab
erythrocyte sedimentation speed and fragility in, [Brill] 317—ab
experimental, bismuth inunction in, [Glemsa] 728—ab
experimental, serodiagnosis, [Mutermilch & Nicolau] 912—ab
experimental, stovarsol in, [Poole] 1656—ab
experimental, Wassermann test in, [Herrold] 1800—ab
familial, [Pfeiffer] 75—ab
familial elective localization, [Flandin] 1401—ab
familial neurotropic, [Marie] 1486—ab
febrile tertiary, [Bacheca] 1253—ab
fever in, [Bottema] 1592—ab
fever, protracted, from, [Figari & Legrand] 1102—ab
films illustrating lesions of, for medical societies and schools, 207
history, in China, [Eckstein] 1733—ab
immunity in, [Nichols] 305—ab
in Africa, 294—ab
in Belgium, campaign against, [Bayet] 1401—ab
in children, gastric acidity in, [Dorne & others] *267
in pregnancy, [Berlin] 1324—ab; [Solomon] 1578—ab
in pregnancy, fetus injury from, [Nürnberger] 1738—ab
in pregnancy, treatment, [Bertran & Arbat] 587—ab; [Kraul & Bodnar] 1807—ab
in third generation, [Sibley] 1484—ab; [Cornaz] 1805—ab
in working classes, [Jeanselme & Burnier] 1586—ab
incidence, 130
infection from cadaver, [Hoffmann] 1174—ab; 1701—E
kidneys and, [Tallqvist] 1812—ab
latent, [Kolle & Evers] 1875—ab
latent, and divorce, [Heller] 1174—ab
latent, and pregnancy, [Bertin] 1324—ab
leukocyte nuclei in, [Lemke & Streblow] 1103—ab
marriage permissible in syphilitics? 886
nervous system in, [Vasilieva] 1955—ab
neurorelapse, 966
neurotropic virus of, [Sicard] 725—ab
plastic linitis and, [Strauss] 384—ab
prevention, pregnancy as factor in, [Solomon] 1578—ab
primary, pathology, [Golay] 313—ab
reinfection, in course of tabes, [Poirier] 1805—ab
relapsing fever spirochetosis and, [Kolle] 588—ab
relation to other dermatoses, [MacKenna] 378—ab; [Skinner] 449—ab
rôle in hereditary and familial psoriasis, [Lévy-Franckel & Juster] 725—ab
Serodiagnosis: See also Kahn Precipitation Test; Meinicke Reaction; Wassermann Test; etc.
serodiagnosis, [Cervera] 1404—ab
serodiagnosis, benzochol test, [Badoux] 1401—ab
serodiagnosis, blood changes, [Klopstock] 1172—ab
serodiagnosis, error of using Kahn reaction alone, [Greenbaum] *1273
SYPHILIS—Continued
serodiagnosis, lipoids in, [Grineff & Baranova] 1408—ab
serodiagnosis, microscopic slide precipitation test, [Kline & Young] *928
serodiagnostic test evaluated by Central Laboratory of Utrecht, 566
serology of, [Klopstock & Hilpert] 1255—ab
serum, llama, 1376
stomach acidity in, [Dorne & others] *267
treatment, 709
treatment, bismuth, [Musser] 304—ab; [Sutton] 1578—ab
treatment, bismuth compounds, 1352—E
treatment, bismuth salicylate, [Gruhzit] 1316—ab
treatment, inunction, [Albrecht & Evers] 237—ab
treatment, liver-syphilis-arsphenamine, [Meyer] 383—ab
treatment, mercury with neo-arsphenamine, 572
treatment, protein, [Greenbaum & Wright] 376—ab; [Catalano] 1956—ab
treatment, protein as adjunct, [Herrold] *413
treatment, sulpharsphenamine intravenously, [Lautman] 1316—ab
treatment, symposium on, [Jadassohn & others] 316—ab
treatment, unsystematic, [Millian] 1402—ab
SYPHILOGRAPHY, third congress of, 50
SYRINGOMYELIA, roentgenotherapy, [Sharaman] 1664—ab
SYRUP as vehicles, [Fantus] *1525

SOCIETIES

Acad.—Academy
Am.—American
A.—Association
Coll.—College
Conf.—Conference
Cong.—Congress
Conv.—Convention
Dist.—District
Hosp.—Hospital
Internat.—International
M.—Medical.
Med.—Medicine
Nat.—National
Phar.—Pharmaceutical
Phys.—Physicians
Ry.—Railway
S.—Surgical
Soc.—Society
Surg.—Surgery,
Surgeon

Alabama, M. A. of the State of, 631, 1459
Alpha Kappa Kappa, 286
Am. Acad. of Ophthalmology and Otolaryngology, 1846
Am. A. of Genito-Urinary Surgs., 1706
Am. A. of Hosp. Social Workers, 1223
Am. A. of Industrial Phys. & Surgs., 881
Am. A. for M. Progress, 426, 1081
Am. A. of Pathologists & Bacteriologists, 1300
Am. A. for the Study of Allergy, 1462
Am. A. for the Study of the Feebleminded, 1634
Am. A. of Thoracic Surg., 881
Am. Bacteriologists, Soc. of, 286, 700
Am. Bronchoscopic Soc., 1921
Am. Child Health A., 1556
Am. Coll. of Phys., 761, 1706
Am. Coll. of Physical Therapy, 1778
Am. Conf. on Hosp. Service, 700
Am. Cong. on Internal Med., 126, 286, 761, 759
Am. Dermatological A., 1846
Am. Electrotherapeutic A., 126
Am. Gastro-Enterological A 1633
Am. Gynecological Soc., 635, 1778
Am. Health Cong., 494, 1300
Am. Laryngological A., 1921
Am. Laryngological, Rhinological and Otological Soc., 1921
Am. M. A. of Vienna, 47
Am. M. Library A., 1921
Am. Neurological A., 1921
Am. Nurses A., 761
Am. Odontological Cong., 1085
Am. Otological Soc., 1921
Am. Pediatric Soc., 1921
Am. Phar. A., 1917
Am. Physiological Soc., 286
Am. Protologic Soc., 1371
Am. Psychiatric A., 1559
Am. Psychopathological A., 697, 1921
Am. Radium Soc., 1706
Am. Roentgen-Ray Soc., 1778
Am. Soc. of Clinical Investigation, 1633
Am. Soc. of Clinical Pathologists, 1462
Am. Soc. for the Control of Cancer, 700, 1371
Am. Soc. of Industrial Phys. & Surgs., 1778
Am. Surgical A., 1846
Am. Urological A., 1921
Anesthetists, Midwestern A. of, 1846
Argentine Biological Soc., 566
Argentine Conf. on Microbiology & M. Teaching, 566
Argentine M. A., 565
Arizona State M. A., 1138, 1555
Arkansas M. Soc., 1567, 1702
A. of the Alumni of the Coll. of Phys. & Surgs., 960
A. of Am. Phys., 1559, 1792, 1936
A. of Am. Teachers of the Diseases of Children, 881
A. of Czech Phys., 967
A. for the Study of Combating of Cancer in Czechoslovakia, 133
Atlantic Dermatological Soc., 493
Belgium Soc. of Surg., 499
Berlin Cong. of Internal Med., 1710, 1782, 1851
Berlin S. of Tropical Med., 432
Brazilian Cong. of Hygiene, 1303
Brazilian S. for Neurology, Psychiatry & Legal Med., 427
British M. A., 47, 564, 962, 1463, 1634, 1636
Brooklyn Dermatological Soc., 357
Brooklyn Ophthalmological Soc., 1369
Brooklyn Urological Soc., 1369
Brussels Cong. of Dermatology & Syphilography, 50
Budapest Royal M. Soc., 1782
California M. A., 1297, 1555
Cambridge (England) University M. Soc., 493
Canadian M. A., 46, 1082, 1845
Canadian Public Health A., 1559
Canadian Soc. for the Study of Diseases of Children, 1559
Canal Zone, M. A. of the Isthmian, 285
Central Antituberculosis Soc. of Japan, 1565
Central Illinois M. Soc., 1555
Central Soc. of the Czechoslovak Phys., 1711
Chicago Heart A., 423
Chicago Institute of Med., 697, 901, 959
Chicago M. Soc., 442, 443, 491, 1917
Chicago Neurological Soc., 1703
Chicago Ophthalmological Soc., 423, 1459
Chicago Roentgen Soc., 1220, 1703
Chicago Tuberculosis Soc., 1703
China M. A., 1779
Clinical Cong. of the Am. Coll. of Phys., 761
Cong. on the Psychology of the Individual, 640
Connecticut Hosp. A., 490
Connecticut State M. Soc., 1916
Detroit Dermatological Soc., 1775
District of Columbia Public Health A., 559
Erie Anti-Tuberculosis Soc., 1081
Flatbush M. Soc., 1299
Florida M. A., 1368, 1916
French Benevolent Soc., 1221
Georgia, M. A. of, 1459
German A. for Internal Med., 962
German Surg. Soc., 1924
German Urologic Soc., 359
Illinois State M. Soc., 1368, 1774
Indiana Acad. of Ophthalmology and Otolaryngology, 1138
Indiana State M. A., 123
Indiana Tuberculosis A., 697
Internat. A. for the Promotion of Child Welfare, 1559
Internat. Committee of the Red Cross, 1920
Internat. Conf. of M. Officers, 498
Internat. Conf. on Oil Pollution of Waters, 1778
Internat. Cong. on Aerial Navigation, 798
Internat. Cong. on First Aid to the Injured, 567
Internat. Cong. on Industrial Accidents & Occupational Diseases, 213, 290
Internat. Cong. on M. Climatology, 498
Internat. Cong. on Sexology, 1779
Internat. Cong. of Surg., 1375
Internat. Health Board of League of Nations, 209
Internat. M. Union, 1562
Internat. Organization for Standardization, 1559
Internat. Physiology Cong., 636, 1924
Internat. Sanitary Conv., 1145
Internat. S. of M. Hydrology, 1080
Internat. S. on Surg., 893
Internat. Stomatological Cong., 761
Internat. Union Against Tuberculosis, 358, 1224
Internat. Union Against the Venereal Peril, 1372
Inter-State Post-Graduate A. of North America, 127
Iowa Heart A., 1460
Iowa State M. A., 1368, 1774
Italian Cong. on Industrial Med., 1637
Italian Cong. of Obstetrics & Gynecology, 1146
Italian Cong. of Ophthalmology, 212
Italian Cong. of the Soc. of Neurology, 1710
Italian Hydrologic Soc., 1637
Italian League for the Prevention of Nervous & Mental Diseases, 1563
Italian M. Soc., 1299
Italian Pediatric Soc., 212
Italian Red Cross Soc., 1146
Italian Red Cross Soc. & Internat. Conf., 213
Italian Soc. of Dermatology & Syphilography, 1147
Italian Soc. of Experimental Biology, 497
Italian Soc. of Internal Med., 51
Italian Soc. for the Study of Tuberculosis, 1375
Johns Hopkins Surg. A., 424
Kansas M. Soc., 559, 1556, 1703
King County (Wash.) M. Soc., 1633
Kings County (N. Y.) M. Soc., 356, 878
League of Nations, 563
Louisiana State M. Soc., 632, 1368
Louisiana Tuberculosis & Public Health A., 759
Madrid Acad. of Med., 566
Maine M. A., 1703, 1843
Maryland, M. & Chirurgical Faculty of, 1556
Maryland State Nurses' A., 697
Massachusetts M. Soc., 632, 1703
Massachusetts Tuberculosis League, 1631
M. Library A., 1778
M. Women's Nat. A., 1371
Michigan State M. Soc., 206, 1557
Minnesota Acad. of Ophthalmology and Otolaryngology, 1917
Minnesota Dermatological Soc., 960
Minnesota Sanatorium A., 1139

Minnesota State M. A., 1221
Mississippi State M. A., 1843
Mississippi Valley Conf. on Tuberculosis, 1297, 1702
Mississippi Valley Sanatorium A., 1846
Missouri Public Health A., 1776
Missouri State M. A., 1775
Montana M. A., 1703
Nat. Acad. of Med., 211
Nat. A. for the Prevention of Tuberculosis, 1224
Nat. A. for the Study of Epilepsy, 1633, 1778, 1921
Nat. Committee for the Prevention of Blindness, 127, 494
Nat. Health Council, 1846
Nat. League of Nursing Education, 761
Nat. M. A., 881
Nat. M. Cong., 47
Nat. Organization for Public Health Nursing, 761
Nat. Tuberculosis A., 425
Near East Relief, 759
Nebraska A. of M. Directors, 1776
Nebraska A. of M. Women, 1776
Nebraska State M. A., 492
Netherlands Pediatricians Soc., 566
New England Dermatological Soc., 1371
New England Surg. Soc., 1843
New Hampshire M. Soc., 631, 1918
New Hampshire Surg. Club, 1139, 1559
New Jersey, M. Soc. of, 1631
New Mexico M. Soc., 1844
New Orleans Tuberculosis & Public Health A., 1630
New York Acad. of Med., 1918
New York Electrotherapeutic Soc., 961, 1632
New York Heart A., 425
New York, M. Soc. of the State of, 634, 878, 1140, 1378, 1478, 1576, 1721
New York Ophthalmological Soc., 879, 1299
New York Soc. for Clinical Psychiatry, 759
New York Soc. for Clinical Research, 561
New York Soc. of M. Jurisprudence, 44
New York State Charities Aid A., 1461
New York Tuberculosis and Health A., 45, 425
North America, Conf. of State & Provincial Health Authorities, 1222
North America, Radiological Soc. of, 426
North Dakota State M. A., 1844
North Pacific Surgs. A., 126
Ohio State M. A., 1040, 1704
Oklahoma State M. A., 1369
Omaha M. Women's Soc., 492
Oregon Public Health League, 1632
Oregon State M. Soc., 1222
Oriental Red Cross Conf., 498
Oxford Ophthalmological Cong., 1634
Pacific Coast A. of Anesthetists, 1138
Pacific Coast Oto-Ophthalmological Soc., 1921
Pacific Coast Surg. A., 490, 881
Pacific Northwest M. A., 1705, 1920
Pan-American Health Conf., 1371
Pan-American Red Cross Conf., 1462, 1920
Pennsylvania Conf. on Social Welfare, 699, 961
Pennsylvania Public Health A., 425
Pennsylvania Tuberculosis Soc., 125
Periodic Health Examinations of Apparently Healthy Persons Conf., 64, 143
Philadelphia County M. Soc., 1370, 1632, 1705, 1919
Philadelphia Heart Disease A., 1461
Philadelphia Neurological Soc., 880
Philippine Islands M. A., 742, 962
Porto Rico, M. A. of, 209
Prison Physicians' A. of America, 355
Provincial Antituberculosis Soc., 1637
Puget Sound Acad. of Ophthalmology & Oto-laryngology, 493, 1635
Rhode Island M. Soc., 1919
Rhode Island Ophthalmological Soc., 961
Rio de Janeiro Soc. for the Study of Tuberculosis, 430
Royal Institute of Pub. Health, Cong. of, 1847
Soc. of Psychiatry & Neurology (Havana), 1558
South American Conf. on Hygiene, Microbiology & Pathology, 1377
South Carolina M. A., 880, 1370
South Dakota State A., 1140, 1777
Southern California Acad. of Criminology, 1079
Southern California M. A., 877
Southern Surg. A., 46, 391
Southwestern Pediatric Soc., 877
Spanish-Cong. on Odontology, 212
Spanish-Portuguese Urologic Cong., 211
Swiss A. Against Tuberculosis, 131
Switzerland, S. Soc. of, 800
Tennessee State M. A., 1705
Texas, State M. A. of, 1370, 1777
Travel Study Club of Am. Phys., 1918
Trudeaux Soc. of Michigan, 1845
Utah State M. A., 1360, 1462, 1845
Vancouver M. A., 1560
Virginia S. of Otolaryngology & Ophthalmology, 1777
Walter Reed M. Soc., 1777
Western Surg. A., 46, 372
West Side Clinical Soc., 357
West Tennessee M. & S. A., 1462
West Virginia State M. A., 562, 1370, 1558, 1633, 1920
Women's Auxiliary of the Am. M. A., 1778
Women's Industrial Conf., 126
Women's M. A. of New York City, 1776
Women's M. Soc. of the State of New York, 560, 1369

T

TABES DORSALIS gastric crises in, chordotomy for, [Sicard & others] 586—ab
joint disease initial sign of, [Zanoli] 156—ab
lesions in, [Marinesco] 1251—ab
optic nerve atrophy in, [Behr] 1491—ab
"stair" sign in, [Hodges] 1868—ab
supranuclear paralysis of eye motor nerves in, [Adrogué] 383—ab
syphilitic reinfection in, [Poirier] 1805—ab
treatment of lancinating pains, [Stein] 1809—ab
vomiting crises in, [Escudero & Tobías] 1102—ab
TABLA ANATOMICA, rare medical book, 1302
TABLETS in medication, [Fantus] *1211
TACHYCARDIA, paroxysmal, with focal myocarditis, [Major & Wahl] *1125
paroxysmal, choline in, [Stepp & Schliephake] 13—ab
paroxysmal, after fallopian tube patency test, [Kern] *823
TALBOT, EUGENE, bust of, presented to the A. M. A., 1842
TALCUM: See Dusting Powders
TALIPES EQUINUS: See Foot Deformity
TALMA'S OPERATION: See Liver, cirrhosis
TANNIN as intestinal astringents, [Gunn] 1168—ab
test for cancer, [Wigand] 1737—ab
TAPEWORM, dwarf, 368
fish (Diphylobothrium latum), infestation by, [Lyon] *264
treatment, [Saurman] 807—ab
TAR, Cancer: See Cancer, tar
Coal: See Coal-Tar
noncancerogenic, 1562
TARTAR EMETIC in clonorchiasis, [Reed & Wyckoff] 1723—ab
TATOOING of female Ainus, 603
TAXATION, income, physician's, 1926, 711—ME
income, Revenue Act of 1926, 692—E
income tax returns, 41—E
protest reduction of tax on alcohol, 208
TAY-SACHS DISEASE: See Idiocy, amaurotic familial
TEAS in medication, [Fantus] *1211
TEETH, abscessed, caused by Trichomonas buccalis, [Hogue] 979—ab
eruption, rôle in rickets diagnosis, [Blum & Mellion] *677
extraction, fatal hemorrhage after, [Kroh] 236—ab
extraction, tragedies, [Blumer] 1161—ab
hygiene, campaign, 428
hygiene, league promoting, Italy, 1710
infected, in mental disorder, 176—ab
retained root is sneezed out, [Ormerod] 1585—ab
TELANGIECTASIA, familial, [East] 1250—ab
from roentgen-ray, ultraviolet treatment, [Lane] 1316—ab
TEMPERAMENT, mixture of, in healthy mates, [Kretschmer] 588—ab
TEMPERATURE and allergy in menstruation, [Gall] 991—ab
atypical, 413—ab
body vs. methylene blue, [Stammers] 1399—ab
effect on Clostridium botulinum, [Starin] 1395—ab
environmental, effect on organism, 199—ab
physiology of "second wind," 1840—E
premenstrual rise in, in tuberculosis, 1152
stomach tonus and, [Weltz & Volkers] 237—ab
TENDON, regeneration after suture, [Närvi] 1670—ab
TENOSUSPENSION: See Shoulder, dislocation
TERATOBLASTOMA of mesentery, [Cannon & O'Kelly] 379—ab
TEST MEALS: See Stomach contents, examination
TESTICLE: See also Epididymis; Gonads
arteries, sympathetic of, chemical exclusions, [Doppler] 317—ab
as "members" of body, 1860—MI
cancer, [Cairns] 1803—ab
cancer, metastatic, roentgenotherapy, [Ullmann] 396—ab
cancer of undescended testicle, [Aurousseau] 1323—ab
displacement, [Spurr] 454—ab
effect on metabolism, [Bugbee & Simond] 1315—ab
embryoma with metastases, [Webb-Johnson] 311—ab
extract with thyroid for mediastinal tumor, [Bagshaw] 1666—ab
inversion, [Waterhouse] 723—ab
tender from kidney injury, [Severin] 1174—ab
transplantation, effect, [Hoskins] 149—ab
tuberculosis, orchidectomy technic for, [Vitlan] *23
tunica vaginalis as test object, [Lanz] 1875—ab
undescended, cancer of, [Aurousseau] 1323—ab
TESTIMONIALS for Anedemin Tablets, [Diller] 437—C
unwarranted use of photograph by Angier Chemical Company, [Hamilton] 1855—C
TETANUS after criminal abortion, [Schneider] 918—ab
antitoxin, standardization, [Feierabend] 80—ab
carriers, human, [Tenbroeck & Bauer] 1800—ab; [Bauer & Meyer] 1801—ab; 1914—E
gas gangrene and, [Meyer] 1394—ab
immunity, [Tenbroeck & Bauer] 1800—ab
immunization, anatoxin for, [Zoeller & Ramon] 1099—ab
late localized, 1709
toxoid for vaccination against, [Zoeller & Ramon] 1099—ab
treatment, serum intravenously, [Wainwright] 1642—C
TETANY: See also Spasmophilia
alkalosis and, [de Geus] 1955—ab
infantile, 1786
infantile, parathyroid extract in, [Hoag & Rivkin] *1343
liver lesions and, [Larini] 1806—ab
migraine associated with, [Parhon & Werner] 987—ab
oxygen deficiency cause of, [Campbell] 807—ab
oxygen tension and, [Campbell] 72—ab
parathyropriva, effect of bleeding on serum calcium, [Swingle & Wenner] 903—ab
parathyropriva, guanidine theory, [Collip & Clark] 1886—ab
parathyropriva, parathyroid extract in, [Lesser] 69—ab; [Fisher & Larson] 511—ab
postoperative, [Brodersen] 730—ab
prevention with strontium lactate, [Swingle & Wenner] 903—ab
stomach disorders in, [Langenskiöld] 1670—ab
surgery in, of gastric origin, [Grégoire] 1663—ab
thymus and, [Macciotta] 382—ab
treatment, parathyroid extract, [Lesser] 69—ab; [Fisher & Larson] 511—ab; [Hoag & Rivkin] *1343
treatment, parathyroid graft, 496; [Frugoni & others] 1587—ab
treatment, ultraviolet rays, [Swingle & Rhinehold] 511—ab
treatment, ultraviolet rays plus calcium chloride, [Lesné & Turpin] 234—ab
TETHELIN, effect on growth, [Robertson & Ray] 583—ab
TETRACHLORETHYLENE as anthelmintic, [Lambert] 584—ab
TETRA-ETHYL LEAD absorption through skin, 1286—E
is ethyl gasoline poisonous? [Flinn] 1162—ab
sanitary regulations for garages, 1081
Special Advisory Committee (appointed by Surgeon General) report on ethyl gasoline, 353—E; 376
TETRAIODOPHENOLPHTHALEIN sodium, in cholecystography, [Whitaker] *239; [Brams & others] 653—ab
THEOBROMINE and test diuresis, [Litzner] 1811—ab
THEOPHYLLINE and tissues, [Fröhlich & Zak] 237—ab
action on tadpoles, [Fröhlich & Zak] 237—ab
THEOSOPHY; religious healing, [Paulsen] *1618
THERAPEUTICS: See also Cults; Medication
calcium chloride in, [Pfleeger] 1495—ab
conservative, [Ordway] *1671
hopes, unwarranted, 1626—E
imagination in, 1562
phosphorus in, [Castellani] 153—ab
principles, [Hausmann] 1101—ab
THERMOCAUTERY: See Galvanocautery
THERMOMETERS, clinical, bills to standardize, 962
clinical, [Noyes] *1239
clinical, Veterans' Bureau test of, 1217—E
THERMOTHERAPY, intra-intestinal, in intestinal disease, [de Rivas] 979—ab
THESINE in Blood: See Blood
THIGH, sarcoma, surgical technic for, [Perret] 1732—ab
THIOSULPHATE, Sodium: See Sodium thiosulphate
THIRST, excessive, vs. water metabolism, [Marx] 1103—ab
postoperative, appendicostomy for, [Crawford] 1166—ab
THORACIC DUCT, drainage, [Costain] 1059—ab
Fistula: See Fistula, lymph, as antidiabetic, [Klug] 1953—ab
sympathetic nerve and, [Minkin] 520—ab
THORACOPLASTY: See also Tuberculosis, Pulmonary, thoracoplasty
extrapleural, [Ziegler] 1875—ab
THORAX, funnel shaped chest, [Zahradníček] 456—ab
roentgenography, lipiodol in, [Archibald] 376—ab
roentgenography of chest, [Monroe & Emergy] 1864—ab
tumor in children, [Dwyer & Helwig] 445—ab
tumor, lymphosarcoma, [Roubier] 1402—ab
THORIUM treatment of gout, [Cluzet & others] 1101—ab
THROAT infections with streptococcus scarlatinae without rash, [Stevens & Dochez] *1110

THROMBO-ANGIITIS obliterans, [Thurston] 229—ab
obliterans, hypertonic salt solution intravenously, [Silbert] *1759
obliterans, surgical experiences, [Nesselrode] 372—ab
THROMBOCYTOPENIA, essential, [Hamilton & Waugh] 1160—ab
THROMBOLYSIS: See Blood platelets
THROMBOPENIA: See Purpura
THROMBOPHLEBITIS: See also Phlebitis; Thrombosis
of lateral sinus, [Rodella] 235—ab
THROMBOSIS: See also Thrombophlebitis
cause of, [Slaughter] *1609
cause of gangrene, [Slaughter] *1608
coronary, [Pletnew] 237—ab
coronary, manner of death in, [Fulton] 649—ab
coronary, symptoms, [McNee] 73—ab
embolism and, [Wyder] 914—ab
of heart, [Torres] 1951—ab
of left auricle, diagnosis, [Aubertin & Rimé] 988—ab
of splenic artery, [Blum] 1407—ab
of terminal arteries and capillaries, 1289—E
postoperative, and constitution, [Schnitzler] 659—ab
sinus, simulating pneumonia, [Strauss] *330
THUMB: See Fingers
THYMOMA, sarcomatous, of thymus, [Evert] 307—ab
THYMUS cell constituents, effect on growth, [Miyagawa & Wada] 231—ab
excision, in rabbit, [van Allen] 1097—ab
sarcomatous thymoma of, [Evert] 307—ab
suprarenal cortex, thyroid and, [Marine] 1432—ab
tetany and, [Macciotta] 382—ab
transplantations, autoplastic, [Gottesman & Jaffe] 1800—ab
THYROGLOSSAL TRACT cysts, [Klingenstein & Wolp] 580—ab
THYROID: See also Goiter; Hyperthyroidism; Hypothyroidism
aberrant, [Guazon] 1318—ab
birds', changes of, [Haecker] 1873—ab
blood calcium and, [Castex & Schteingart] 988—ab
bone formation in, [Seelig] 309—ab
cancer, treatment, [Craver] 580—ab
development vs. pancreas, [Aron] 1665—ab
diathermy, and glycemia, [Massa] 1253—ab
disease, vegetative tonus in, [Krause] 1100—ab
estrus and, [Lee] 1656—ab; Cameron & Amies] 1728—ab
Excision: See Thyroidectomy
extract, effect on gastric secretion, [Truesdell] 1797—ab
feeding, effect on blood sugar, [Hancher & others] 511—ab
feeding, effect on estrus cycle, [Cameron & Amies] 1728—ab
feeding, effect on sugar tolerance, [Marks] 72—ab
fibrosarcoma, [Zeckwer] 1317—ab
function vs. fat, [Abelin] 1490—ab
grafting, [Boattini] 1873—ab
growth and, [Hammett] 1656—ab
histologic changes from iodine, [Rienhoff] 226—ab
histology, [Williamson & Pearse] 2003—ab
iodine resorption by, [Eckstein & Nuelle] 658—ab
metastasis to bones, [Simpson] 1943—ab
opotherapy in dyspituitarism, [Wynn] *820
palpating lobes of, method, [Lahey] *813
rôle in eclampsia, [Moreira] 913—ab
stomach secretion and, [Lewit] 521—ab
substernal, [Felberbaum & Finesilver] 1578—ab
suprarenal cortex relation to, [Marine] 1482—ab
survey of Topeka school children, [Brown] 806—ab
Treatment: See also Thyroid feeding
treatment of mediastinal tumor, [Bacalhau] 1666—ab
treatment of scleroderma, 60
tumor and heart disease, [Arneill] 1799—ab
tumor, embryonic mixed, [Bell] *1616
tumor, hypernephroma, [Kolodny] 717—ab
tumor in bones, [Ferrero & Sacerdote] 381—ab
tumor, papilloma, [Gauzon] 1318—ab
THYROIDECTOMY, [Breitner & others] 1174—ab
for persistent and recurrent hyperthyroidism, [Lahey & Clute] 1245—ab; [Elliott] 1937—ab
partial, parathyroid grafting in, [Lahey] 1944—ab
pregnancy following, 1308
tetany after, [Brodersen] 730—ab
total, in exophthalmic thyrotoxicosis, [Gilman & Kay] 1578—ab
THYROTOXICOSIS: See under Goiter, Exophthalmic
THYROXIN, iodine effect on, [Sturgis & others] 1580—ab
TIBIA, echinococcosis, experimental, [Dévé] 74—ab
fracture, unusual, [Gilmore] 909—ab
occupational bursa on, [Eccles] 1249—ab
sarcoma, congenital, [Kolodny] 1939—ab
tubercle, [Delitala] 726—ab
TIC douloureux: See Neuralgia, glossopharyngeal; Neuralgia, trigeminal
TINCTURES in medication, [Pantus] *1525
TISSUE, connective, and reticulo-endothelial system, [Mollendorff] 658—ab
culture and oxygen, [Fischer & Andersen] 1257—ab
culture vs. ultraviolet rays, [Kiær] 655—ab; [Moppett] 1870—ab
freezing, toxin produced by, [Speransky] 1804—ab
living, structure of, and proteins, 753—ab; [Moppett] 1870—ab
reactions to irradiation, 1772—E
roentgen ray effect on, [Stephens & Florey] 655—ab
shifting treatment of roentgen ray burns, [Davis] *1432
subcutaneous, calcification, [Wilens & Derby] 977—ab
sugar, [Steiner] 158—ab
theophylline and, [Fröhlich & Zak] 237—ab
undernourished, treatment, [Lieben] 455—ab
TITRATION, new principle for, [Flatow] 78—ab
TOBACCO: See also Nicotine
workers, tuberculosis in, [Müller & Berghaus] 1257—ab
TOE: See also Phalanges
autotransplantation for traumatic loss of finger, [Fuld] *1281
TOLUIDIN BLUE stain for nerve cells, [Proescher & Arkush] 1098—ab
TONGUE, administration by, [Pantus] *687
cancer, radiotherapy, [Schreiner & Brown] 1723—ab
warts, [Davis] 1581—ab
TONSIL, enlarged, splenomegaly in, [Fort] 1567—C
hemolytic streptococci in, [Pilot & Tumpeer] 977—ab
infected, complications, [Segura & Viton] 1734—ab
infected, pyemia after, [Fraenkel] 809—ab
organism of actinomyces-like tonsillar granules, [Tunnicliff] 1861—ab
tuberculosis, in Chinese, [Korns] 152—ab
TONSILLECTOMY, diphtheria after, [Zingher] 977—ab
medicolegal, especially legal responsibility, [Harris] *830
pillar retractor for, [Haines] *1767
pons hemorrhage after, [Tawse] 1585—ab
prevention in, 1215—E
TONSILLITIS: See Tonsils, infected
TONSILLOMYCOSES, [Castellani] 1801—ab
TORULA infection in man, [McGehee & Michelson] 301—ab
TOWELS, sling method of lifting patient, [Murphy] *33
sterile paper, for surgical wound dressings, [Woolsey] *1612
TOXEMIA: See also Diabetes Mellitus; Pregnancy
acute postoperative, of hyperthyroidism, [Rogers] 1944—ab
alimentary, [Jörgensen] 589—ab
in early stages of mental disease, [McIntyre & others] 1654—ab
TOXICOSIS, infantile, insulin in, [Wagner] 589—ab
TOXIN: See also Diphtheria; Scarlet Fever; etc.
precipitinogen and, [Eisler & Kovács] 1954—ab
produced by tissue freezing, [Speransky] 1804—ab
TOXIN-ANTITOXIN and asthma, 1309
protein, hypersensitivity to, [Bauer & Wilmer] *942
TRACHEA, atresia and other anomalies, [Thorek] *33
as plastic material, [Leone] 1873—ab
cast of, [Bell] *1833
roentgen study, with iodized oil, [Iglauer] *1879
rupture, [Chatterjee] 379—ab
tuberculosis, experimental, [Beckwith & Millzner] 904—ab
tumors, [Adam] 1662—ab
TRACHEOTOMY, [Digby] 911—ab
TRACHOMA, 1377
among Indians, 358; [Fox] *404; 970—C; 1371
bacteriologic examination in, 1638
in Czechoslovakia, 432
in Japan, 498
surgery, [Ziegler] *399
TRANSFUSION: See Blood Transfusion
TRANSILLUMINATION of uterus, cervix, [Thompson] *1437
TRANSPLANTS: See also under names of organs and regions
autotransplantation of toe for traumatic loss of finger, [Fuld] *1281
implant treatment of joint disease, [Robertson Lavalle] 1587—ab
production of epithelial lined tubes and sacs, [Davis & Traut] *339
transplantation after blocking of defensive forces, [Lehmann & Tammann] 1808—ab
vital staining and, [Lehmann & Tammann] 316—ab
TRANSUDATES: See Exudates
TRAUMA: See also Neuroses, traumatic; Workmen's Compensation; and under names of organs
TRAUMA—Continued
disease as caused by, evidence, 142—M!
epidemic encephalitis after, [Castex & others] 76—ab
heart block as caused by, 510—M!
kidney tuberculosis and, [Howard & Le-Coque] 1246—ab
malignancy and, [Mock & Ellis] *257; 1229
tuberculosis as caused by, 1721—M!
uronephrosis after [Cornioley] 1733—ab
vascular spasm prolonged after, [Finaly] 1811—ab
TRAVEL STUDY CLUB OF AMERICAN PHYSICIANS, 46, 1918
TREPHINING, fate after, [Béraud] 314—ab
TREPOL not acceptable for N. N. R., 135—P
TRICHINOSIS encephalitis, [Hassin & Diamond] 717—ab
four cases in University of Michigan Student Health Service, [Bettison] *609
in Argentina, [Odriozola] 519—ab
in Austria, 1850
in children, [Aikman] 653—ab
sporadic, with extreme hypotension, [Cheney] *1004
TRICHOMONAS: See also Pentatrichomonas
buccalis, [Hogue] 979—ab
vaginalis, [Schmid & Kamniker] 1325—ab
TRIPLETS pregnancy, roentgen diagnosis, [Genell] 1731—ab
single ovum, postpartum eclampsia following delivery, [Cohen & Cohen] *947
TROPICAL MEDICINE, Society of Tropical Medicine, 432
school of, at Bologna, 704
TROPICS, basal metabolism in, [Mukherjee] 1384—C
smallpox inoculation among Dyaks, 891—ab
tuberculosis in, [Lambert & Casiro Filho] 305—ab
TRUSS for hydrocele, 803
TRYPAFLAVINE: See Acriflavine
TRYPANOSOMIASIS, Chagas' disease in Argentina, [Dios & others] 656—ab
Chagas' disease and goiter, [Kraus] 1809—ab
expedition to Congo, 1925
in Belgian Congo, 1639
in monkeys, [Dios & others] 1171—ab
treatment in animals with Bayer 205, 1144
treatment, tryparsamide, [Chesterman] 153—ab; [Schofield] 910—ab
tsetse fly problem, 48
TRYPARSAMIDE: See also Trypanosomiasis, treatment
injection of, 1568
use in patients with and without ocular lesions, [Cady & Alvis] *184
TRYPSIN flocculation in serum, [Saxl & Kelen] 317—ab
secretion and rickets, [Lukacs] 1243—ab
tryptic ferment in gallbladder, [Erb & Barth] 77—ab
TSETSE FLY problem, 48
TUBER CINEREUM and diabetes insipidus, [Sabrazes] 1732—ab
function vs. pituitary, 964; [Roussy] 1322—ab
TUBERCLE BACILLUS, acid fastness, [Suyenaga] 306—ab
bovine type, serology, [Cumming] 313—ab
cultivation, [Globetbal] 917—ab
extracts in external tuberculosis, [Nègre & Boquet] 1587—ab
filtrable, in artificial pneumothorax fluid, [Veber] 1252—ab
filtrable; passage through placenta, [Arloing & Dufourt] 1251—ab
filtrate, skin reactions with, [Herrold & Saelhof] *747
growth vs. iron, [Henley] 306—ab
in feces, [Syke] 1167—ab
in milk, [Wilson & Nutt] 2003—ab
in milk, bovine and human tuberculosis, 554—E; 1996
in milk, danger to human beings, 573
in milk vs. pasteurization, 554—E; 573; [White] 1099—ab
infection, acute, [Feinäf] 729—ab
infection, lung reaction to, [Lang] 150—ab
infection of trachea, experimental, [Beckwith & Millzner] 904—ab
isolation, [Ramos Passos & Löwenstein] 913—ab
larynx test for, [Silwer & Rasch] 1670—ab
nonacid-resisting, rôle of, [Bezançon & Philibert] 808—ab
staining, [Foiré & Carranza] 809—ab; [Corper] 1657—ab
strains, reaction curves, [Cumming] 1585—ab
transmutation, [Calmette] 580—ab
vaccine made from wax-free cultures, [Whitman & Chambers] 1799—ab
viability, [Caldwell] 150—ab
TUBERCULENE, fraudulent cure, 1089—P
TUBERCULIDS formation vs. leukocytes, [Maxlnow] 150—ab
TUBERCULIN allergy, [Moro & Keller] 454—ab; [Gröer & others] 1589—ab
allergy and vitamins, [Galli] 726—ab
inoculation with, plus cowpox virus, [Moro & Keller] 1589—ab
nonprotein gum, [Mueller] 1096—ab
prepared from nonprotein substrates, 1968—ab
reaction of normal person to, 437; [Brown] 891—C; [Tice] 1151—C

TUBERCULIN—Continued
reactions vs. leukocytes, [Stewart & others] 1479—ab
simultaneous injection of vaccine and, [Fernbach] 236—ab
standardization, [Okell] 1321—ab; [Aronson] 1655—ab
susceptibility to, changes in, [Ossoinig] 658—ab
test, [Zuccola] 2005—ab
test and standardization of tuberculin, [Okell] 1321—ab
test, improved, [Ferrari] 656—ab
test, Pirquet, and smallpox vaccination, [Ricciardi] 1873—ab
tests, intracutaneous, [Downing & Higgins] 1243—ab
test, Pirquet, and vasomotors in measles, [Kollár] 1256—ab
TUBERCULOSIS: See also under names of various organs, as Kidney; Larynx; etc.
activated by measles? [Beisken] 521—ab
avian, in man, [Mayo & Hendricks] 908—ab
bilateral spontaneous, [Briggs] 305—ab
blood calcium in, [Schoenheit] 67—ab
blood cholesterol in, [Grau San Martin] 1588—ab
blood in, vs. roentgen rays, [Epstein] 1101—ab
blood magnesium in, [Schoenheit] 67—ab
bovine, and human tuberculosis, 554—E
bovine, danger to human beings from, 573; 1996
bovine, decreasing, 1706
cancer and, [Centanni & Rezzesi] 1403—ab
Central Antituberculosis Society, Japan, 1565
chronic, and scurvy, [Heymann] 990—ab
chronic localized, diaplyte vaccine in, [Munro & Winchester] 581—ab
clinics, in Austria, 1638
closed, sputum examination in, [Szucs] ★946
colony, England, 884
congenital, [Kochmann] 919—ab
control, and practitioner, [Zickgraf] 1408—ab
control, antituberculosis film, Netherlands, 1086
control, Antituberculosis Sanatorium in Sicily, 705
control, Argentina, 1377
control, Denmark, 1708
control, in France, and Rockefeller Mission, 638
control, in prefecture of Seine, 638
control, Italy, 1637; 1994
control, Léon Bourgeois's campaign, 429
control, millions from Christmas seals, U. S., 562
control, session of Swiss Association against Tuberculosis, 131
control, Spain, 212
Diabetes in: See Diabetes Mellitus, tuberculosis in
diagnostic culture in, [Hohn] 1809—ab; [Meller] 1810—ab
diet in, [Myer] 1581—ab
dispensaries in New York City, 1704
Dreyer's defatted antigen in, [Nevin & others] 1315—ab
erythrocyte sedimentation test in, [Muralt & Weiller] 517—ab; [D'Asaro] 915—ab
etiology, lack of lipase factor in, [Robinovitch & others] 906—ab
experimental, [Ross & Tulloch] 1663—ab
experimental, and endobronchial inoculations, [Petit & others] 1251—ab
experimental, hypersensitiveness in, [Boquet & Nègre] 886—ab
experimental, immunization against, [Tulloch] 1168—ab
experimental, Sanocrysin in, [Bang] 1176—ab; 1255—ab
experimental, vital staining in, [Jaffe] 1315—ab
extrarenal, unilateral nephrectomy with, [Condmain] 1487—ab
family history vs. prognosis, [Ford] 313—ab
habitus, [Frisch & Eiselsberg] 1256—ab
heliotherapy at low altitudes, [Freiberg] ★731
heliotherapy in, 498; [Hawes] 1145—ab
heredity, [Debré & Lelong] 1251—ab
hospitalization and tuberculosis, 1465
Hospitals: See Sanatoriums
hospitals, ★1011
immunity, mechanism, [Lubarsky & others] 1104—ab
immunization, [Langer] 1588—ab; [Raw] 1661—ab; [Enright] 1868—ab
immunization, Calmette's, [Löwenstein] 1668—ab
immunization, in Vienna, 1560
immunization of infants, [Weill-Hallé & Turpin] 724—ab
immunization of new-born, [Calmette & others] 1252—ab, 1322—ab
immunization with living bacilli, 626—E
in bakers, 362
in children, [Zacks] ★598; [Debré & Cordey] 656—ab; [Massey] 1945—ab; [Worringen] 2006—ab
in children, diagnosis, [Mikulowski] 154—ab
in children, kidneys in, [Bonacorsi] 1253—ab
in children, latent, [Eberson] 1315—ab
in Filipinos, [Callender & Hall] 579—ab
in goats and goat's milk anemia, [Brouwer] 1592—ab
in Infants: See also Tuberculosis, congenital

TUBERCULOSIS—Continued
in infants, treatment, [Wallgren] 318—ab
in infants, ultraviolet rays for, [Gautier & Peyrot] 518—ab
in instructional corps, 1376
in Korea, 1924
in tropics, [Lambert & Castro Filho] 305—ab
in U. S. declining, 1996
incipient, diagnosis, [Jessen] 1490—ab
incubation, [Epstein] 658—ab; 1406—ab
industrial, [Braeuning] 159—ab; 362; 1087; [Müller & Berghaus] 1257—ab
institute, Buenos Aires, 1085
International Union Against Tuberculosis, 1224
ischiorectal abscess and, [Clarke] 1409—ab
lesions, postmortem, [Todd] 1945—ab
lipiodol injury in, [Lichtwitz] 1104—ab
lymph nodes in, [Martenstein & Amster] 1590—ab
miliary, chronic, with resolution, [Kahn] 904—ab
miliary, limited, [Falls!] 1652—ab
mortality among miners of Ruhr region, 1087
mortality, Czechoslovakia, 1711
mortality in Chemnitz, [Hauffe] 919—ab
mortality in Moravia, 703
mortality in Porto Rico, 136—ab
mortality in Saxony, [Weber] 590—ab
myopia and, [Hirsch] 590—ab
organotherapy in, in senility, [Korenchevsky] 231—ab
parathyroid hormone and, [Gordon & others] ★1683
pleurisy and, [Hastings] 1581—ab
prognosis in child, [Massey] 1945—ab
prognosis, vs. family history, [Ford] 313—ab
prohibition in America and, [Donath] 1175—ab
Pulmonary: See Tuberculosis, Pulmonary
research, 1088
roentgenotherapy, [Sledamgrotzky] 1254—ab
sanatorium, treating cardiac patients in, [Howk] 1161—ab
sanatorium treatment, India, [Primodt-Möller] 1663—ab
sanatoriums, ★1011
sanatoriums for children, Rome, 212
saprophytes and, [Wolf] 159—ab
serodiagnosis, Besredka vs. Wassermann tests, 566
serodiagnosis, complement fixation in, [Pinner] 305—ab
serodiagnosis, flocculation test, [Hardesty] 1581—ab
serodiagnosis, Mátétfy test, [Rosenhagen] 1257—ab
serodiagnosis, Wassermann test, [Pinner] 2006—ab
silicosis and, [Riddell] 908—ab
skin in, [Martenstein & Amster] 1590—ab
Society for Study of Tuberculosis, 1375
society, Rio de Janeiro, 430
stomach secretion in, [Delhougne] 1588—ab
surgical, and hospital facilities, 557—E
surgical, artificial light treatment, [Gauvain] 983—ab
surgical, cod liver oil and magnesium hydroxide in, [Rhodes] 720—ab
surgical, iodized oil in, [Detbet] 313—ab
surgical, periarterial sympathectomy for, [Fontaine] 1872—ab
surgical, phototherapy in, [Gauvain] 983—ab
surgical, roentgenotherapy, [Béhag] 983—ab
surgical, Wildbolz urine reaction in, [Vvedensky] 590—ab
Treatment: See also Tuberculosis, heliotherapy; Tuberculosis, in infants; etc.
treatment, diet, vs. para-insulin formation, [Lundberg] 318—ab
treatment, gold compounds, [Schamberg & others] 716—ab
treatment, gold, in pulmonary tuberculosis, [Bernard] 1949—ab
treatment, gold (Sanocrysin), 487—E; [Kraus & others] 917—ab; [Czerny & Opitz] 917—ab; [Lichtenmann & others] 917—ab; [Neufeld] 917—ab; [Klemperer] 1103—ab; [Bang] 1176—ab, 1257—ab; [Ulrich] 1589—ab; [Le Blanc] 1591—ab; [Secher] 1670—ab
treatment, gold, small doses of Sanocrysin, [Permin] 920—ab
treatment, Kirkpatrick's Pul-Bro-Tu, 708—P
treatment, open-air, 1682—ab
treatment, parathyroid hormone, [Gordon & others] ★1683
treatment, problems, 887
treatment, Spahlinger, 210; 567
treatment, spleen, [Bayle] 233—ab
treatment, transmineralization, [Sauerbruch] 810—ab
treatment, tubercle bacilli extracts, [Nègre & Boquet] 1587—ab
treatment, using antagonism between gout and tuberculosis in, [Hervouet] 155—ab
treatment, vs. climate, [Bernard] 1871—ab
Vaccination: See Tuberculosis immunization
winds effect on, [Gordon] 983—ab
TUBERCULOSIS, PULMONARY: See also Pleura tuberculosis
artificial pneumothorax in, [Epstein] 159—ab; 1709
artificial pneumothorax in, alternate, 50
artificial pneumothorax in pregnant, [Raimondi & González] 455—ab
artificial pneumothorax in, simultaneous bilateral, 362

TUBERCULOSIS, PULMONARY—Continued
compulsory notification, Bucharest, 1926
blood antibodies and antigen, [Salomon & Valtis] 233—ab
blood calcium in, [Teplitz] 305—ab
blood coagulation in, [Mas y Magro] 587—ab
blood in, [Tanaka] 1729—ab
blood pressure in, venous, [Villaret & Martiny] 155—ab
catarrhopyogenic infections and, [Shaw] 583—ab
Co...: See Tuberculosis
complications, goiter, [Hittmair] 521—ab
complications, hemorrhagic liver necrosis, [Cain & Boltanski] 155—ab
complications, hydatid cyst, [Bonaba] 2005—ab
complications, pleuritic effusion with cholesterol, [Malmin] 458—ab
complications, vaccine treatment, [Courmont & others] 74—ab
diagnosis in children, [Findlay] 1585—ab
diagnosis, Larson's ring test, [Bacon] 909—ab
diazo reaction and sedimentation speed in, [Muralt & Weiller] 517—ab
experimental, [Beckwith & Millzner] 904—ab
fibrous, 1849
flaring up after operations elsewhere, [Beuançon & Jacquelin] 1665—ab
Heliotherapy in: See Tuberculosis, heliotherapy in
hilum, in adult, [Freed & Webb] 904—ab
in children, diagnosis, [Findlay] 1585—ab
in Colombo, [De Silva] 515—ab
in pregnant, [Raimondi & Gonzalez] 453—ab; [Sergent] 656—ab; [Bridgman & Norwood] 1394—ab
lung changes estimated by roentgen ray, [Lynham] 1945—ab
phrenic evulsion in, [Davies] 1249—ab
phrenicotomy in, [Pheasant ★813]; [Moure & others] 1169—ab; [Maurer] 1170—ab
pleuritic pain, alcohol injection for, [Sweetlow] 904—ab
postgraduate lectures on, 431
premenstrual rise in temperature in, 1152
prognosis, [Pisavy] 808—ab
prognosis, cardiac index in, [Horwitz & Dunham] 228—ab
prognosis, influenza bacillus in, [Courmont & Boissel] 75—ab
roentgenography in, value, [Baum & Black] 305—ab
Serodiagnosis: See Tuberculosis, serodiagnosis
surgical risk in, [Griffith] 302—ab
thoracoplasty in, [Helblom] 374—ab; [Knopf] 905—ab; [Law] 1581—ab
Treatment: See also Tuberculosis, heliotherapy in; Tuberculosis, Pulmonary, thoracoplasty in
treatment, [Knopf] 905—ab
treatment, after childbirth, [Sergent] 656—ab
treatment, calcium, [Pinkhof] 991—ab
treatment, climatic, 1926
treatment, metal salts, [Lunde] 1176—ab
treatment, thoracic splint, [Howell] 305—ab
treatment, Tuberculene, 1089—P
tubercle bacilli in feces in, [Syke] 1167—ab
viscosimetric index in, [Bonorino-Udaondo & Casteigts] 383—ab
TULAREMIA, case reports, [Maclachlan & others] ★749; [Levaro] ★839
identity of Ohara's disease and, [Francis & Moore] ★1329
with conjunctivitis, 1233—ab
TUMOR: See also under names of organs and of tumors
cells, reactions to irradiation, 1772—E
etiology, [Murphy] ★1270
experimental, from pityrol injection, [Kaneko & others] 1811—ab
experimental primary, of lung, [Murphy & Sturm] 227—ab
extracts, glycolytic activation by, [Waterman] 953—ab
giant cell, of phalanges, [Cole] 1579—ab
growth vs. irradiated sarcoma cell injection on, [Small & others] 70—ab
importance of certain organs in, [Pacetto] 234—ab
in fish, [Takahashi] 1811—ab
metastases of embryoma, [Webb-Johnson] 311—ab
mixed, embryonic, [Bell] ★1616
mixed, of jaws, [Martinez] 157—ab
subcutaneous, from injection of drugs, 1239
susceptibility and heredity, [Lynch] 982—ab, 1800—plf
tar, autoplastic implantation, [Kreyberg] 71—ab
tissue, growth promoting factor in, [Chambers & Scott] 1399—ab
tissue, insulin content, [Corl] 71—ab
tissue, irradiated, not immunity producing, [Wood & Prigosen] 70—ab
TUNICA VAGINALIS: See Testicle
TURPENTINE fixation abscess, [Comby] 1168—ab
injections enhances antitoxic titer of diphtheria antiserums, [Pico & Ferrari] 74—ab
wood, dermatitis from, [McCord] ★1979
TWINS, congenital syphilis in, [Cassel] 455—ab
dementia praecox in, [Parker] 1247—ab
difference in size, [Brandess] 589—ab
Mongolian idiocy in, [Dietrich & Berkley] 1965—ab
TYMPANIC MEMBRANE: See Ear

TYPHOID bacillus, persistence in body, [Cornwall & Beer] 1485—ab
bacillus, viability, [Demme] 316—ab
bacillus, viability in ice cream, [Prucha & Brannon] 981—ab
blood cultures in, [de Jong & Hauduroy] 450—ab
carriers, [Bersch] 1668—ab
carriers, prevalence, [Leach & others] 1798—ab
cholecystitis, [Schottmüller & Fraenkel] 384—ab; [Pomeroy & Shen] 579—ab
diagnosis, bile culture in, [Alexa & Munteanu] 988—ab
diet in, Coleman, [Sison & Ignacio] 1942—ab
epidemic, [Straub] 1172—ab
epidemic, damage suits following, Pennsylvania, 1705
immunization, 1372; [Spät] 1491—ab
immunization, agglutinins after, [Auricchio] 1171—ab
immunization, oral, 430, [Solovieff & Gandelsman] 1408—ab
immunizaton, reactions [Nichols & Hitchens] 1657—ab
in Austria, 702
in children, dumbness accompanying, [Debbas] 1663—ab
in children, vaccine in, [Spyropoulos] 1804—ab
in Cuba, 762
in large cities of U. S. in 1925, *948; 955—E
in Tokyo, 762
increases 45 per cent in U. S. in 1925, 426
infection, focal, [Landau & Fejgin] 1160—ab
infection, main factors in, 691—E
inoculation, [Robert] 1485—ab
skin test, [Germinal Rodriguez] 1588—ab
spleen abscess from, [Morel & others] 1730—ab
transmitted by bedbugs, [Lynn-Ge] 1400—ab
treatment, [Hilgermann] 1737—ab
treatment, mercurochrome, 1320—ab
treatment, vaccine, [Spyropoulos] 1804—ab
Typhoid Paratyphoid Prophylactic, 1213
vaccine in chorea, [Dwyer] 1319—ab
vaccine, sensitized, 1308; [Huntoon] 1995—C
vaccine, standardization, [Smith] 150—ab
TYPHUS, etiology, [Kusama] 312—ab
fever resembling, [Wheatland] 1663—ab
prevention, convalescents' serum from animals in, [Nicolle & Conseil] 1804—ab
TYROSINE, source of epinephrin, 1763—ab

U

ULCERS: See also Peptic Ulcer; and under names of organs
in scar tissue, [Johnson] 1244—ab
leg, periarterial sympathectomy for, [Leyva Pereira] 586—ab
leg, sciatic nerve injection for, [Taylor & Rice] *191
perforating, of foot, 1152
periarterial sympathectomy for, [Pieri] 518—ab
rodent, radiotherapy, [Hernaman-Johnson] 1329—ab
traumatic, treatment, [Davis] 1724—ab
treatment, protein, [Gohrbandt] 520—ab
Tropical: See Leishmaniasis
trophic, cervicothoracic and lumbar-sacral sympathectomy for, [Diez] 1486—ab
Varicose: See Varicose Veins
ULTRA-RED: See Infra-Red
ULTRAVIOLET RAYS absorption spectrums of cancer blood, [Stenstrom & Reinhard] 71—ab
antiscorbutic vitamin and, [Eggleton & Harris] 311—ab
bactericidal effect, [Eidinow] 983—ab
Curay light applicators, 971
effect on bactericidal processes in blood, [Genner] 1176—ab
effect on blood, [Reed] 68—ab
effect on blood calcium, [Reed & Tweedy] 1798—ab
effect on carbohydrates, [Bierry] 1731—ab
effect on fluorescence of oil, [Becker] 810—ab
effect on growth, [Springer & Tardieu] 1947—ab
effect on milk and eggs, 870—E
effect on oxygen consumption and total metabolism, [Mason & Mason] 1862—ab
effect on tetany, [Swingle & Rhinhold] 511—ab
effect on tissue cultures, [Kiæ] 655—ab; [Moppett] 1870—ab
glass permeable to, 220
irradiation of blood, effect on blood pressure, [Reed] 68—ab
irradiation of cholesterol, [Bills] 1246—ab; [Parsons] 1584—ab; [György & others] 1876—ab
irradiation of foodstuffs, [Mackay & Shaw] 722—ab
irradiation of hen affects vitamin content of hen's egg, [Hughes & others] 1246—ab
irradiation of milk, [Mackay & Shaw] 722—ab; 870—E; [György] 990—ab, 1953—ab; [Steenbock & others] 1246—ab; [Hottinger] 1325—ab
ULTRAVIOLET RAYS—Continued
Kromayer lamp, 972
of sun, 872—E
protection against radiodermatitis, (correction), [Andrews & MacKee] 367—C
standardization; ultraviolet unit, [Pohle] *818
treatment, [Freiberg] *732
treatment in dermatology, [Castle] 583—ab
treatment in pediatrics, [Wyman] 981—ab
treatment in surgery, [Masmonteil] 381—ab
treatment of anemias, [Tixier] 452—ab
treatment of fissured nipples, [Chatin] 1101—ab
treatment of infantile tuberculosis, [Gautier & Peyre] 518—ab
treatment of phlebitis, [Savini] 913—ab
treatment of roentgen-ray telangiectases, [Lane] 1316—ab
unit, [Pohle] *818
UMBILICAL CORD, clamping, [Dicks] 148—ab
UMBILICUS cancer, secondary, [Head] 1660—ab
hemorrhage with deep jaundice, (correction) [Sison] 128
Hernia: See Hernia
persistent omphalomesenteric duct and urachus in same case, [Davis & Niehaus] *685
UNCINARIA, larva, development, [Maplestone] 1249—ab
larva, isolation, [Fülleborn] 315—ab
UNCINARIASIS carrier, 1286—E
expedition to study, 1226
infestation of school children, [Smillie & Augustine] 1243—ab
treatment, [Sweet] 515—ab; [Manalang] 1946—ab
treatment, carbon tetrachloride, 52
treatment, glycerin, [Shelley] 1729—ab
treatment in children, [Smillie & Augustine] 908—ab
treatment in pregnant with carbon tetrachloride, [Insfrán] *735
UNITED CANCER INSTITUTE, 55—P
UNITED STATES Army: See Army, U. S.
Congress: See Congress, U. S.
Department of Agriculture: See Department of Agriculture
Navy: See Navy, U. S.
Public Health Service: See under Health
Veterans' Bureau: See Veterans' Bureau
UNITY SOCIETY, religious healing, [Paulsen] *1617
UNIVERSITY: See also under names of universities as Cornell, Yale; etc.
numerus clausus in, Hungary, 886
numerus clausus in, Roumania, 1782
of Bari, medical studies at, 497
of California Medical School, experiment in medical education, [Kerr] 1864—ab
of Louvain on the Congo, new Medical Foundation of, 1144
of Sydney, chair of anthropology in, 496
of Trinity College, diploma mill, 498; *1527
physical fitness in college, [Emerson] *1511
URACHUS, closed cyst, [Patel & Labry] 1169—ab
with persistent omphalomesenteric duct, [Davis & Niehaus] *685
UREA calcium chloride, prevents postoperative pneumonia, [Lindauer] 660—ab
coefficient, Ambard, in hypertension, [Richard & Busch] 1871—ab
coefficient, Ambard's, [Goldberger] 1408—ab
coefficient, Ambard's simplified, [Rojas] 1404—ab
formation, and liver, 1629—E
in Blood: See Blood urea
in saliva, [Schultz & Ziegler] 1795—ab
secretion in hypertension, [Ravina] 914—ab
UREMIA, oxalemia, [Khouri] 724—ab
auscultatory sign in, [Anders] 210—C
coma after diabetic coma, [Merklen & others] 1486—ab
pathogenesis, spinal fluid in, [Becher] 918—ab
URETER, Calculi: See also Urinary Tract calculi
anomaly; ectopic openings, [Kilbane] 582—ab
anomaly; reduplication, [Ormond] 1942—ab
calculi, extractor and dilator for, [Councill] *1907
calculi, [Leo] 1403—ab
dilation, molding wax bougie bulbs, [Corbus] *114
kinks, [Livermore] 229—ab
repair, [McArthur] 308—ab
stricture, [Pecoul & Main] 1248—ab; [Andrews] 1583—ab; [Martin] 1583—ab
tortuous, passage of catheter through, [Lewis & Carroll] *1833
transplantation, in acquired conditions, [Hinman] *921
URETERORECTONEOSTOMY, [Hinman] *921
URETHRA, male, hirudiniasis of, [Mitra] 1249—ab
chancroids, [Goodman] 1942—ab
medication, [Fantus] *1981
perineal, rupture, [Melo] 1102—ab
posterior, in enuresis, [Deutsch] 1175—ab
prostatic, [Valerio] 1102—ab
roentgenology, [Langer & Witkowsky] 1736—ab
stenosis, pereneum resection for, [Bazy] 1323—ab
urethrotomy internal, [Huddy] 1165—ab
URETHRITIS of pasteurella origin, [Papadopoulo] 233—ab
gonorrheal, diathermy in, [Cherry] *1745
gonorrheal, mercurochrome, foreign protein and sugar in, [Potter & Redewill] 1867—ab
URIC ACID in Blood: See Blood
retention, 1456—E
retention during fasting, [Lennox] 1246—ab
URINARY TRACT, calculi, etiology, [Rosenow] 719—ab
infection, antiseptics for, [Davis] 1726—ab
infection, bacteriophage treatment, [Dalsace] 1487—ab
infection, hexylresorcinol in, [Brown] *668; [Leonard & Frobisher] 982—ab; [Wynne] 1726—ab
infections, intravenous chemotherapy in, [Braasch & Bumpus] 1942—ab
obstruction, surgical preparation in, [Hunt] 1164—ab
papilloma spread by implantation, [Maybury & Dyke] 152—ab
sterilizing, [Young] 982—ab
suppuraiton in infants, [Martinez Zuvia] 235—ab
URINATION, impulse for, [Steiner] 919—ab
URINE: See also Urea
acetonuria before and after operations, [Cardini & Martinez] 453—ab
acetonuria in pregnancy, [Kleesattel] 1325—ab
acidifier, ammonium chloride, [Muschat] 1942—ab
acidity and ketonuria, [Tallerman] 1398—ab
acidity in nephritis, [Van Slyke & others] 1589—ab
acidity, rhythm in, [Muschat] 1580—ab
Albuminuria: See Albuminuria
Albumosuria: See Albumosuria
ammonia in nephritis, [Van Slyke & others] 1580—ab
ammonia nitrogen in, in vomiting of pregnancy, [Drennan & Hicks] 1802—ab
calcium, estimating, [Sharpe] 654—ab
casts, formation, [Feuchtwanger & Lederer] 1876—ab
changes during severe exercise, 39—E; [Wilson & others] 70—ab
chyluria, artificial, [Lagemann] 1254—ab
concentration in diabetic toxemia, [Bulger & Peters] 980—ab
creatinine, in infants, [Rougichitch] 1795—ab
diacetic acid, plus four, 1643
diastase in, [Fabricius-Møller] 1878—ab
diastatic activity in, [Reid] 653—ab
examination, value in kidney disease, [Maclean] 723—ab
excessive, vs. functions of infundibulotuberal region, 964
exercise effect on, 39—E; [Liljestrand & Wilson] 70—ab; [Wilson & others] 70—ab
fibrinuria with renal cancer, [Chauvin] 1949—ab
fructosuria, [Snapper & others] 1952—ab
fungus casts in, [Gundersen] 1258—ab
glomerular, chloride concentration in, [Wearn & Richards] 448—ab
Hemoglobin in: See Hemoglobinuria
incontinence, essential, [Serantes & Montes] 656—ab
incontinence, gracilis muscle transplanted for, [Deming] *822
incontinence, posterior urethra in, [Deutsch] 1175—ab
incontinence, surgery for, [Gammeltoft] 1812—ab
iron, determination, [Fowweather] 1398—ab
ischuria, postoperative, [Lampert] 1408—ab
laboratory study, [Kelly] 1866—ab
lactic acid, vs. exercise, [Liljestrand & Wilson] 70—ab
levulosuria, [Snapper & others] 1952—ab
nitrites, [Salén] 1878—ab
oxaluria, [Piccininni & Lombardi] 1255—ab
pentosuria, familial, [Jones & Nissler] 1160—ab
*p*u; acid-alkali elimination test, [Rehn] 728—ab
*p*u and gastric acidity, [Ackman] 225—ab
*p*u; ketonuria and urinary acidity, [Tallerman] 1398—ab
phenoluria, [Binet & others] 1664—ab; [Debré & others] 1948—ab
phenomena in mental distress, [Laignel-Lavastine & Cornelius] 75—ab
phosphate excretion during water diuresis, [Havard & Reay] 1398—ab
phosphates, vs. exercise, [Havard & Reay] 1802—ab
polyuria, vs. water metabolism, [Marx] 1103—ab
protein, type of, [Calvin & others] *1823
proteins, crystalline, of nephritis, [Welker & others] *1333; [Morse] 1714—C
proteinuria, serologic studies, [Tandowsky] *263
pyuria of infants, [Frank] 1735—ab
reaction, Wildbolz, in surgical tuberculosis, [Vvedensky] 590—ab
retention, postoperative, [Michon & Bouvier] 155—ab; [Hjelt] 386—ab
sarcinae in, 1931
Sugar: See also Glycosuria
sugar, normal, [Blatherwick & others] 1247—ab

URINE—Continued
sugar test, error in, [Van Bemmell] 1811—ab
sugar, yeast method for detecting, [Castellani & Taylor] *523; [Einhorn] 892—C; [Castellani] 892—C
suppression, long standing, [Myers] *1198
uric acid excretion of infants, [Rougiehitch] 1795—ab
urobilinogenuria, [Schiller] 1954—ab
urobilinogenuria in pregnant, [Schiller & Ornstein] 810—ab
UROBILIN physiology and pathology, [Elman & McMaster] 226—ab
research on, [Terwen] 158—ab
UROBILINOGEN, in Urine: See Urine
UROLOGY, Fourth Italian Urology Congress, 519—ab
effect on longevity, [Thomas] *1957
recent Spanish-Portuguese Urologic Congress, 211
URONEPHROSIS: See Hydronephrosis
UROTROPIN: See Methenamine
URTICARIA, damage from cathartics in, [Lorlat-Jacob] 725—ab
quinine causes, [Hughes] 1249—ab
UTERUS: See also Endometrium; Gynecology; Pelvis
adnexitis, amebic, [Rudecindo de la Fuente] 1489—ab
anomalies, abortion in, [Falk] 1669—ab
cancer, [Hinman] *922; [Dalsgaard-Nielsen] 1258—ab; [Martzloff] 1582—ab
cancer, and uterine tuberculosis, [Gais] 1939—ab
cancer, radiotherapy, [Healy] 650—ab
cancer, radium at a distance, [Ferroux & others] 1487—ab
cancer, radium in, effect on diabetes mellitus, [Seiichiro] 656—ab
cancer, radium therapy, 1374; [Regaud & others] 1487—ab; 1993
cancer, screen and introducer for inserting radon tubes, [Simpson & Flesher] *1005
cancer, vs. pregnancy, [O'Brien] 71—ab
cancroid, experimental [Teutschlaender] 1810—ab
cervical metritis, high frequency currents for, [Flandrin & Schil] 1872—ab
cervix, adenoma [Douay & Soimaru] 1949—ab
cervix, chancre, [Cron] 1797—ab
cervix, endocervicitis, cautery treatment, [Davis] *1763
cervix, endocervicitis, gonorrheal, mercurochrome in, [Brady] 512—ab
cervix, levator, [DuBose] 309—ab
cervix tear, prevention, [Gardiner] *161
cervix, transillumination, [Thompson] *1437
contractions, stimulation, [Gauss] 660—ab
dilatation, Baumm's metreurynter, [Sztehlo] 1407—ab
displacement, traumatic, 290
dysembryoplasia, [Letulle & others] 233—ab
endoscopy, [Seymour] 583—ab
epinephrin effect on, [Gruber] 69—ab
excision, technic, [DuBose] 302—ab
excision, vs. artificial menopause, [Kraul] 1668—ab
hemorrhage, fatal, with hemogenia, [Payan] 1252—ab
hemorrhage, functional, treatment, [Novak] *1195
hemorrhage in young virgins, [Natvig] 920—ab
hemorrhage, radium therapy, [Forsdike] 1484—ab
hemorrhage with fibromyoma, roentgenotherapy, [Kaplan] 1738—ab
injections, diathermy in, [Cherry] *1745
injection of soapy water into, causes peritonitis, [Petersen] 1812—ab
pituitary extract effect on, [Sherrill] 303—ab; [Knaus] 307—ab
prolapse, surgery for, [Johnson] 1944—ab
retraction, hemostasis post partum, [Wieloch] 159—ab
retrodisplacement, treatment, [Luque] 1169—ab
retroflexion and accident, [Füth] 1810—ab
retroflexion, movable, [Meyer-Wirz] 1170—ab
retroversioflexion, traumatic, [Raaflaub] 159—ab
retroversion, early puerperal, [Lack] 1485—ab
roentgen study using lodized oil, [Mocquot] 314—ab
rupture, after cesarean section, [Wetterwald] 1591—ab
rupture, experimental, [Lackner] 592—ab
rupture, from pituitary extract, [Sherrill] 303—ab
rupture, with vesical laceration, [Hagenbuch] 810—ab
surgery, hysterotomy, [Oginz] 1944—ab
tuberculosis plus cancer, [Gais] 1939—ab
tumor, adenoma, [Douay & Soimaru] 1949—ab
tumor, adenomyosis, [Frankl] 148—ab
tumor, endometrioma, [Letulle & others] 233—ab
tumor, fibroids, myomectomy for, [Bonney] 231—ab
tumor, fibroma, roentgen diagnosis, [Ferré] 724—ab
tumor, fibromyoma, [Hewitt] 652—ab; [Martindale] 984—ab; [Ford] 1164—ab; [Ucrós & De Fancisco] 1588—ab
UTERUS—Continued
tumor, fibromyoma with metrorrhagias, [Kaplan] 1738—ab
tumor, myomectomy during pregnancy, 799
tumor, unusually large, [Stevens] 985—ab

V

VACCINATION: See Immunization; and under names of diseases as Smallpox vaccination; Tuberculosis immunization; etc.
VACCINES: See also under Gonococcus
allergy after, [Moro & Keller] 454—ab
associated, [Ramon & Zoeller] 1323—ab
autogenous, in endocarditis, [Stahl & Nagell] 384—ab
autovaccine in paranephritis, [Cleszynski] 912—ab
diagnosis of gonorrhea, [Köhler] 919—ab
diaplyte, in tuberculosis, [Munro & Winchester] 584—ab
herpes from, [Naegeli] 726—ab
of Nicolle in treatment of chancroid, 361
production in Dutch East Indies, [Otten] 1955—ab
sensitized bacterial, 1308; [Huntoon] 1995—C
simultaneous injection of tuberculin and, [Fernbach] 236—ab
Therapy: See also Asthma; Insanity, puerperal; Peptic Ulcer; Pneumonia; etc.
therapy in children, [Finkelstein] 1325—ab
VACCINIA: See Cowpox; Smallpox, vaccination
VACUUM TUBE for mailing blood samples, [John] 1482—ab
Burt Vacuum Tube, mail order fraud, 218—P
VAGINA acidity and gonorrhea, [Rehn] 78—ab; [Caffier] 919—ab
bacilli, [Tateyama] 158—ab
bacillus, Döderlein's, [Lash & Kaplan] 1801—ab
bacteria and puerperium, [Broich] 1255—ab
bacteria, virulence, [Louros] 1807—ab
douches, [Schwarzkopf] 1492—ab
flora, [Soiken] 1407—ab
flora at term, [Neumann] 810—ab
glycogen in fetal vagina, [Gragert] 1807—ab
Hernia: See Hernia
inflammation; colpitis vetularum, [Flatau & Herzog] 529—ab
inflammation from trichomonas vaginalis, [Schmid & Kamniker] 1325—ab
lubricant, glycerin for, 645
reaction in new-born, [Kienlin] 1669—ab
secretion, auto-infection from, 1464
secretion reaction in gonorrhea, [Volkmann] 659—ab
smears and swimming pool sanitation, 1153
stethoscope for pregnancy diagnosis, [Falls] 1797—ab
VAGOTONIA: See Nerve, vagotonia
VAN DEN BERGH TEST: See Blood, bilirubin; Liver function tests
VAPOR inhalation in medication, [Fantus] *552
VARICELLA: See Chickenpox
VARICOSE VEINS: See also Esophagus, varix
congenital, of angular vein, [Schwartz] *1905
elephantiasic, of legs, surgery for, [Mellett] 234—ab
of superficial epigastric, [Hughson] 1660—ab
periarterial sympathectomy in, [Bonani] 156—ab
surgical treatment, 1375
treatment, injection, [Meisen] 80—ab; Alstrup] 1956—ab
treatment, insulin, 568
ulcers, treatment, [Bertwistle] 984—ab; [Davis] 1724—ab
VARIOLA: See Smallpox
VAS DEFERENS, effects of vasoligation, [Arland] 1485—ab
endocrines after vasectomy, [Rossi] 1408—ab
vasotomy, [Morgan] 1248—ab
VASOMOTOR MECHANISM disorders; headache, with nasal and eye discharge, [Vallery-Radot & Blamoutier] 380—ab
nerves of arteries, [Hirsch] 236—ab
pain conduction in vessel nerves, [Hirsch] 1876—ab
vasodilatation after sympathetic neurectomy, [Brown & Rowntree] 649—ab
VEINS, anastomosis, [Bird] 1660—ab
angular, congenital varicosity, [Schwartz] *1905
jugular, ligation of, [Riess] 317—ab
peripheral, pulsation in, in heart failure, [Kerr & Warren] 148—ab
Portal: See Portal Vein
Pressure in: See Blood Pressure, venous
renal, occlusion, glomerular circulation following, [Zackwer] 1479—ab
superficial, epigastric, varix of, [Hughson] 1660—ab
VENEREAL DISEASES: See also Gonorrhea; Syphilis
British Social Hygiene Council, 211
census, Czechoslovakia, 967
control in Italian army, 497
control of, (N.Y.) 1918
control, Switzerland, 567
in Basel, [Vollenweider] 381—ab
quarantine, express authority unnecessary, 1391—MI
reports, District of Columbia, 1842
treatment of seamen suffering from, 48
VENESECTION: See Bloodletting
VENOCLYSIS: See Injections, intravenous
VENOM: See Snakes, venom; Spider, venom
VENTILATION of schoolrooms, 690—E
better than fan, [Greenburg] 878—ab
VERATRUM viride: See Auricular Fibrillation
VERONAL: See Barbital
VERRUCA of mouth, [Davis] 1581—ab
VERTEBRAE: See under Spine
VERTIGO, surgical treatment, 1562
VERUMONTANUM: See Urethra, prostatic
VESICULITIS: See under Seminal Vesicles
VETERANS' BUREAU, annual report, 47
hospitals, cardiovascular diseases in, [Matz] 1583—ab
hospitals, plans for, 1142
medical service, model manual of, 956—E
test of clinical thermometers, 1217—E
VETERANS' RELIEF LEGISLATION, 270—E; [Pryor] 891—C; 1840—E
VETERINARY sanatorium, unqualified director, 1926
VIBRIOS, isolating and cultivating from feces, [Tomb & Maitra] 1585—ab
VICIOUS CIRCLE, prevention in gastroenterostomy, [Mosti] 915—ab
VIENNA'S budget as viewed by physicians, 887
VINCENT, G. E., physician of the future, 419—E
VINCENT'S ORGANISM: See Spirochetosis
VIRCHOW, as censor, 430
VIREX, Dale Laboratories, 642—P
VIRULENCE, bacterial, increased by culture, [Iyengar] 1485—ab
of vaginal germs, [Louros] 1807—ab
of streptococci and treatment of abortion, [Kuster] 919—ab
test, Phillipp's, and mortality, [Pribram] 919—ab
test (Ruge-Philipp) in gynecology and obstetrics, [Fuss] 919—ab
test (Ruge-Phillipp) in puerperal disease, [Bubilitschenko] 919—ab
VIRUSES, dermotropic, culture, [Belin] 912—ab
filter-passing, 798
filtrable, global bodies, 1354—E
fixed, causes hydrophobia? [Sylliaba] 729—ab
fixed, multiplication, [Cornwall & Beer] 1484—ab
VISCERA pain and referred pain, [Ryle] 1870—ab
VISCEROPTOSIS: See Splanchnoptosis
VISION: See also Eye; Glasses
coffee effect on, [Allers & others] 1951—ab
defective, education of children with, England, 701
disturbances, from glare, 488—E
disturbances, use of trypars amide in patients with, [Udy & Alvis] *184
field of, of single eye, [Kleist] 990—ab
International Congress for Conservation of Vision, proposed, committee report, [Posey & others] *415
loss of, computation, 1999—MI
recovery of, in implanted eye of triton, [Matthey] 1252—ab
VISUALIZATION in young, [Karger] 77—ab
VITAL CAPACITY and prognosis, 1074—E
in heart plus lung disease, [Caussade & others] 1871—ab
in school children, [Billard & Gourdon] 1252—ab
in surgical patients, [Moersch] 1161—ab
VITAL STATISTICS: See also Cancer, mortality; Infants, mortality; Maternal mortality; etc.
age-groups distribution in Germany, 966
birth rate declining, England and Wales, 884
birth rate declining, U. S., 1846
death rate, male, vs. prohibition, Copenhagen, [Heiberg] 1738—ab
excess of females in Germany, 214
for Bucharest, 1464
for England and Wales, 1143
for Germany for third quarter 1924, 568
morbidity in Palestine, 1300
morbidity, Prussia, 705
morbidity, Vienna, 1638
mortality, surgical disease, [Willis] 1659—ab
of racial groups in Hawaii, [Kung] 805—ab
principal causes of death in 1924, 46
tax levy to pay registrars, validity, 976—MI
VITALAIT STARTER omitted from N. N. R., 294—P
"VITALITY" and vitamin B, 1987—E
VITAMINS: See also Diet; Food; Nutrition
A, [Poulsson] 588—ab; [Drummond] 1167—ab
A and effects of light, [Bloch] 660—ab, 1479—ab; 1699—E
A avitaminosis, blood counts in, [Falconer] 1798—ab
A deficiency vs. bile duct calculus, [Fujimaki] 1946—ab
A deficiency vs. nitrogen metabolism, [Morgan & Osborn] 1246—ab
A diet, [Smith & Chick] 1399—ab
A group, significance, [Wendt] 384—ab
A in fresh spinach, [Chick & Roscoe] 1399—ab
A in wool fat, [Gudjonsson] 1315—ab
avitaminosis and fracture healing, [Israel & Fränkel] 1103—ab
avitaminosis and rickets, [Schmitt] 659—ab
avitaminosis vs. blood platelet count, [Stammers] 653—ab
B and "vitality," 1987—E

VITAMINS—Continued
B avitaminosis, experimental, [Tcherkes] 1104—ab
B deficiency vs. heat production, [Farmer & Redenbaugh] 511—ab
B in lemon rind, [Willimott] 1398—ab
B in maize kernel, [Croll & Mendel] 68—ab
B prepared from brewers' yeast, [Seidell] 1865—ab
C and ultraviolet rays, [Eggleton & Harris] 311—ab
C content of human milk, [Meyer & Nassau] 384—ab; [Frank] 1953—ab
C content of raw and pasteurized milk, [Van Leersum] 1492—ab
C in dried milk, [Supplee & Dow] 977—ab
C vs. fermentation, [Lepkovsky & others] 448—ab
chemical analysis of, 1838—E
cod liver oil emulsification and, 645
D, 565
D in winter spinach, [Boas] 1399—ab
disease and, [McCollum] 1722—ab
E, diet and reproduction, [Nelson & others] 1938—ab
E, hydrogenated vegetable oil source of, [Kennedy & Palmer] 1983—ab
effect of chemical preservation of eggs, [Tso] 1398—ab
Hilton's Vitamines, 643—P
hormones and, [Wolfer] 1590—ab
in foods, A. M. A. poster, 1383
in yeast, 1497—ab
new work on, 1156
potency of cod liver oil, 645; [Anderson] 970—C; [Holmes & Pigott] 1483—ab
PP, [McCollum] 1722—ab
pronunciation of "vitamin," 59
tuberculin allergy and, [Galli] 726—ab
value of some common foodstuffs, [Eddy] 1722—ab
VITILIGO, leukoderma syphiliticum, [Shelmire & Calhoun] *1428
VIVISECTION: See Animal Experimentation
VOCAL CORDS, cancer, [Guérin] 1488—ab
VOCATIONAL GUIDANCE, 291
service in Rome, 885
VOCATIONAL TESTS of railroad employees, Germany, 292
VOLTAIRE and medical jurisprudence, 927—ab
public health and, 828—ab
VOLUMETRIC measurement by drops, [Fildes & Smart] 2003—ab
VOLVULUS of fallopian tube, [Gabe] 1580—ab
of stomach, [Helsingen] 920—ab
VOMITING: See also Nausea; Seasickness
cyclic, [Portú Pereyra] 889—ab
emetics and, [Klee & Laux] 587—ab
in infants, [Garelly] 1950—ab
of Pregnancy: See Pregnancy
VULVA epithelioma, treatment, 499
VULVOVAGINITIS, gonorrheal, diagnosis, [Scudder] 71—ab
gonorrheal, gonococcal peritonitis complicating, [Gleich] *748
in children, [Fraser] 31¢—ab; [Vogt] 1808—ab

W

WAGE: See Salaries
WALKER INSTITUTE, 644—P
WALKER PHARMACAL COMPANY, 220
WALSH, WILLIAM T., Church Mystical Union, [Paulsen] *1621
WAR: See Army; Rehabilitation; Soldiers; Veterans' Bureau; Veterans' Relief Legislation
WARREN LABORATORIES, 643—P
WART: See Verruca
WASHBURN, ALBERT T., 57—P
WASHES: See Lotions
WASSERMANN TEST: See also Complement Fixation
Bauchau's modification, [Lenci] 519—ab
compared with Kahn test, [Owen & Cope] 1396—ab; [Kelly] 1396—ab; [Giordano] 1396—ab
in effusions, [Pansini] 916—ab
in experimental syphilis, [Herrold] 1800—ab
in parturients, [Boas & others] 1258—ab
in relation to leprosy, 1925
in retroplacental blood, [Boas & Gammeltoft] 1258—ab
WASSERMANN TEST—Continued
in Tuberculosis: See Tuberculosis, serodiagnosis
Induced by lipoid-serum injection, [Brandt & others] 901—ab
model manual of Veterans' Bureau Medical Service, 956—E
report, standardized, [Casselman] 1396—ab
routine, importance, [Fitz] 1248—ab
variations in, 971
WATER and acid-base balance, [Solano Ramos] 1948—ab
enough, more, or less, 1912—E
Metabolism: See also Diuresis
metabolism, [Marx] 316—ab, 1103—ab; [Andrews] 1160—ab
metabolism and alimentary glycemia, [Klein & Lang] 1174—ab
metabolism and kidney function, [Gigon] 726—ab
metabolism and liver, [Lenaz] 1589—ab
metabolism and reticulo-endothelial system, [Jochwedi] 317—ab
metabolism in diabetes mellitus, [Foshay] 980—ab
metabolism in fever, [Pribram] 316—ab
metabolism, pituitary and insulin, [Koref & Mautner] 658—ab
metabolism, studies, [Andrews] 901—ab
Mineral: See Mineral Water
pollution, bacterial, and natural purification, 1428—ab
pollution by industrial wastes, 761
pollution by oil, international conference on, 1778
pollution, investigation, 1133—E
production in body and edema, [Mello] 1406—ab
removal of iron rust from, 709
WATER BUGS, 1931
WATERMELON seed, lowers blood pressure, [Barksdale] 1159—ab
WEATHER, genius epidemicus, [Magelssen] 920—ab
WEBB CHEMICAL COMPANY, 643—P
WEBB, WARD H., 641—P
WEBB'S COMBINATION PRESCRIPTION, 643—P
WEIGHT, what is normal weight? 617—ab
WEIGHTS and measures, 422—E; [Hornback] 644—C; [Burnett] 892—C; [Fantus] *1347
WEIL-FELIX REACTION, atypical, [Gilbert & Poisson] 378—ab
WEIL'S DISEASE: See Jaundice, spirochetal
WHEAL formation in children, [Pilcher] 978—ab
formation in rickets and spasmophilia, [Pilcher] 978—ab
WHEAT, vitamin B in, [Croll & Mendel] 68—ab
WHISKY—then and now, 1771—E
captured, for patients 1922
WHOOPING COUGH, [Szontagh] 990—ab
acute fatal encephalitis in, [Bonaba & Leunda] 982—ab
blood chemistry in, [Regan & Tolstoouhov] *181, *1116
blood in, [Ziegler] 914—ab
immunization, 1066
laboratory aid in, 200—E; [Sheffield] 367—C
paroxysmal stage, treatment, [Williamson] 583—ab
treatment, ether injections, [Pollock] 652—ab
treatment, vaccine, [Brouwer-Frommann] 920—ab; [Enklaar] 1492—ab
"WHO'S WHO IN AMERICAN MEDICINE," 647; [Walter] 1714—C
WIDAL TEST: See Liver function tests
WILDBOLZ REACTION: See Urine reaction
WILLIS, CIRCLE of: See Circle of Willis
WILLS, insane delusions and testamentry capacity, 1392—MI
mental capacity, belief in spiritualism, 63—MI
WILSON, MARY McGUIRE, obesity cure, 1701—E
WILSON'S DISEASE: See Hepatolenticular Degeneration
WINDS, effect on phthisis, [Gordon] 983—ab
WINES, medicinal, conference on, 1300
WINTERGREEN, oil of—a warning, 1628—E
oil of, poisoning, [Wetzel & Nourse] 1482—ab
WOLFFIAN BODY cysts, [Harris] 373—ab
WOMEN, excess in Germany, 214
in medicine, fewer, England, 563
irritability of, 281—E; [Williams] 511—ab
WOODS HOLE LABORATORY of Bureau of Fisheries, tables at, 1081
WORK, modern conceptions of physiology of, 363
WORKMEN, sex impotence of, 1924
WORKMEN'S COMPENSATION: See also Disability
accidental injury, carbon monoxide poisoning, 1726—MI
accidental injury, disease as, 1313—MI
act of Massachuscetts, investigated, 1843
acts, eye, loss of, defined, 1935—MI
blastomycosis compensable, 1241—MI
claim for mosquito bite under, 1227
disease, when compensable, 1313—MI
evidence, expert, when conclusive, 1313—MI
eye, loss of, 1935—MI
fees, liability of employer, 1720—MI; 1999—MI
fees limited by law, 1720—MI
for minor injuries, 290
hydrocele and, [Scheele] 2005—ab
in England, 213
influenza a personal, compensable injury, 648—MI
malicious injury by physician, liability, 224—MI
medical benefits and cash award distinguished, 224—MI
medical treatment, rejection of, 300—MI
naturally and unavoidably defined, 1241—MI
neurasthenia compensable, 1240—MI
penalizing employer, 224—MI
peritonitis, when compensable, 1574—MI
physician, selection of, 300—MI; 510—MI
pneumonia compensable, 648—MI
traumatic tuberculosis, 1721—MI
vision, computation of loss of, 1999—MI
WOUNDS: See also under names of organs and regions
accidental, treatment, [DeMotte] 1657—ab
Diphtheria: See Diphtheria
gun shot, report of, compulsory, New York, 1844
healing, and lipoids, [Berberich & Eliassow] 77—ab
treatment, 1716
treatment, acriflavine, [Graftdijk] 238—ab
union, analysis of, [Goff] 309—ab
WRESTLERS, professional, [Lampé & others] 588—ab
WRESTLING MATS, furuncles from, 709
WRIST, carpal center development in rickets, [Goldberger & Mellon] 977—ab
WRITING and reading for recumbent, [Alexander] *346

X

XANTHOCHROMIA, Froin syndrome, [Hudelo & Mouzon] 808—ab; [Kamman] 1726—ab
in epidemic encephalitis, [Rothschild] 1655—ab
in neurosyphilis, [Guillain & others] 724—ab
in syphilitic meningoradiculitis, [Hudelo & Mouzon] 808—ab
in tumors of cauda equina, [Wolfsohn & Morrissey] *1828
XEROPHTHALMIA, light and effects of vitamin A, [Bloch] 660—ab, 1479—ab; 1699—E
XIPHOID PROCESS: See Sternum

Y

YALE UNIVERSITY announcement and medical education, [Stockard] *1508
YAWS: See Frambesia
YEAST, food value, [Engel] 727—ab
in pellagra, [Faust-Newton] 1583—ab
method for detecting glucose in urine, [Castellani & Taylor] *523; [Finhorn] 892—C; [Castellani] 892—C
roentgen rays and, [Schneider] 1103—ab
supplement to deficient diet, 1497—ab
vitamin B prepared from, [Seidell] 1865—ab
YELLOW FEVER, 563
personal experience with, [Hanson] *548
YONGA YOGA SCIENTIST, INC., 1566—P

Z

ZINC STEARATE poisoning, fatal, [Schlaepfer] 1795—ab
ZNOJEMSKY, J., death of, 431
ZOALITE LAMP, 1091

AUTHOR INDEX

In this Index are the names of the authors of articles which have appeared in THE JOURNAL, the names of those who have read papers before Societies as published in THE JOURNAL and those whose articles have been abstracted in the Current Medical Literature Department. The * preceding the page reference indicates that the article appeared in full in THE JOURNAL.

A

Aaron, A. H., 1654
Abadie, 1732
Abascal, M. P., 1102
Abbott, L. C., 1164
Abel, E., 1664
Abelin, J., 454, 1490
Abelous, E. E., 1664
Abels, H., 1667
Abraham, A., 454
Abrami, P., 516
Abramowitz, E. W., 304
Abramson, H. A., 1481
Acél, 236
Achinelly, J. C., 809
Acken, H. S., Jr., *1687
Ackman, F. D., 225
Acuña, M., 235
Adam, J., 1662
Adams, S. F., *535, *1107, 1160
Adie, W. J., 911
Adler, H., 1809
Adlercreutz, E., 1258
Adlersberg, D., 1172, 1952
Adlersberg, L., 655
Adnot, 1100
Adorni, O. E., 1874
Adrogué, E., 76, 383
Adson, A. W., *1835
Africa, C. M., 1727
D'Agata, G., 1403
Agduhr, E., 1492
Agulowa, 78
Aikman, J., 653
Albrecht, B., 237
Alessandrini, A., 518
Alessandrini, G., 915
Alessandrini, P., 1171
Alexa, I., 988
Alexander, A. A., 148
Alexander, J., *346
Alexandrova-Portniagina, L., 1878
Allaga, J. M., 1735
Alkan, L., 1952
Allan, G. A., 1484
Allard, E., 1738, 1811
Allen, E., *1964
Allen, M., 151, 1654
Allen, W. M., 1656
Allers, R., 1951
Alles, G. A., 1151
Allison, N., 1164
Allodi, F., 1806
Alpers, B. J., 447
Alruiz, L. F., 1655
Alstrup, K., 1956
Altnow, H., 718
Altschul, W., 728
Alvarez, C., 383
Alvarez, W. C., 1582
Alvarez López, A., 382
Alvis, B. Y., *184
D'Amato, H. J., 76
D'Amato, J., 315
Ambard, L., 1100, 1100
Ameghino, A., 1735
Amies, A. B. P., 1728
Amster, S., 1590
Amtman, L. E., *945
Amundsen, P., 1258
Anders, J. M., 219
Andersen, B., 1176
Andersen, E. B., 1257
Andersen, W. T., 1176
Anderson, H., 1653
Anderson, J. F., 970
Andrei, O., 2004
Andres, A., 522
Andresen, A. F. R., 1724
Andrewes, C. H., 1096
Andrews, C. J., 1583
Andrews, E., 901, 1096, 1160, *1835
Andrews, F. W., 723
Anitschkow, N., 77
Antonucci, 915
Apert, E., 380
Appelmans, R., 1402
Apperly, F. L., 1947
Applebaum, H. S., *1677
Aráoz Alfaro, G., 1951
Arataki, M., 716
Archibald, E., 376
Argaud, R., 1731
Argy, W. P., 652
Arkhangelsky, V., 590
Arkush, A. S., 720, 1098
Arland, J. P., 1485
Arloing, F., 517, 1251
Armaud Ugón, A., 989
Arneill, J. R., 1799
Arnoldi, W., 236, 1254, 1952
Aron, M., 1665
Aronson, J. D., 1653
Arrillaga, F. C., 453
Arzeno Carranza, M., 809
d'Asaro, F., 915
Aschheim, S., 520, 1589
Aschner, B., 810
Aschner, P. W., 1480
Ascoli, V., 1666
Ashby, H. T., 1320
Ashcroft, A. T., 1584
Ashcroft, G. B., 1162
Asher, L., 454
Asheshov, I. N., 517
Astraldi, A., 453, 1102
Astrowe, P. S., 652
Astwazaturow, 590
Atkinson, A. J., 307
Atkinson, W. P. T., 1398
Atwell, W. J., 1723
Aubertin, G., 988
Auchincloss, H., *995
Augustine, D. L., 908, 1243
Auricchio, L., 314, 1171
Aurousseau, L., 1323
Austrian, C. R., 1794
Avery, O. T., 227, 227
Aycock, W. L., 447, 447
Ayer, W. D., 294
Ayres, S., Jr., 306
Azerad, 2004

B

Baar, H., 384
Babcock, W. W., 1660
Babkowa, 78
Babonneix, L., 808, 1322
Bacalhau, J., 1666
Bacalogdu, 75
Bachera, A., 1253
Bacon, A. L., 1655
Bacon, C. S., *465
Bacon, H. P., 909
Bader, C. W., 1491
Badger, T., 1580
Badino, P., 1734
Badoux, V. E., 1401
Baehr, G., *1001
Bahn, K., 1591
Bailey, H., 1797
Bailey, P., 152
Bailly, J., 451, 987
Bain, C. W. C., 1803
Baird, R. W., 1867
Baker, R. M., Jr., 1865
Bakh, 1104
Balard, P., 1402
Baldes, E. J., 68, 1938
Baldous, 1732
Baldridge, C. W., 1482
Balfour, D. C., 373, 1163
Bálint, M., 1173
Bálint, R., 659
Ball, R., 1243
Ball, V., 724
Ball, W. G., 1869
Ballin, L., 1104
Ballon, D. H., 376
Balog, L., 1255
Baltscheffsky, 1258
Bang, C., 1176, 1257
Bantin, C. P., *546
Banting, F. G., 386
Barach, A. L., 1480
Barach, J. H., 1642
Baranova, 1408
Baranski, R., 1804
Barbé, 1665
Barcia, P. A., 989
Barclay, A. E., 653, 1485
Barcroft, J., 72
Bard, L., 655
Bardakh, M., 385
Bardier, E., 1323
Bargen, J. A., 979
Barksdale, I. S., 1159
Barnes, B. S., *686
Barnes, J. M., 1244
Barnes, S., 72, 985, 1944
Baron, 656
Barenl, B., 381
Barotte, 808
Barr, A. S., 230
Barr, E. S., 1163
Barry, R. G., 1163
Barry, T. R., *1437
Bársony, 158, 158, 237
Barth, F., 77
Bass, M. H., *387, *938
Bassler, A., 1938
Bassoe, P., 1245, 1714
Bates, J. E., 377
Bauer, E. L., *942
Bauer, J. H., 1800, 1801
Bauer, K. H., 587, 1808
Baum, F., 305
Baum, H. L., 512
Bauman, G. I., 582
Baumann, E. J., 1315
Baumgartner, 808
Baumm, H., 1590
Baumm, P., 1810
Baumritter, P., 154
Bauzá, L. A., 1950
Bayer, W., 158
Bayet, 1401
Bayle, 233
Bayne-Jones, S., 226
Bayor, D., 1669
Bazán, F., 2005
Bazy, P., 1323
Beall, G. G., 447
Beall, F. C., 302, 1867
Beard, A. H., 1726
Bearse, C., 1317
Beatson, G. T., 722
de Beaufort, A. C., 655
Becher, E., 78, 455, 918, 1173, 1811
Beck, B. S., 227
Beck, C. S., 227, 979
Beck, I., 1243
Beck, O., 1953
Becker, J., 810
Beckmann, E., 587, 1173
Beckwith, T. D., 904
Bécière, A., 1732
Bécière, M., 913
Beer, A., 1484, 1484, 1485
Beers, D. L., 1868
Béhague, 586
Behneman, H. M. F., 68
Behr, C., 1491
Behre, J. A., 1318
Behrens, B., 219
Beigler, S. K., 1578
Beilsen, W., 521
Beisaw, O., 453
Belden, W. W., 1315
Belding, D. L., 978
Belfield, W. T., *1831
Belgeri, A., 383
Belin, M., 912
Belk, W. P., 1395
Bell, A. L. L., 149, 1943
Bell, E. A., 1160
Bell, J. W., *1616
Bell, M., 1247
Bell, W. B., 231, 308, 582, 650, 1322
de Bellard, E. P., 157, 157, 1946
Beller, A. J., 1799
Beiote, G. H., 1724
Benda, R., 1738
Bendescu, 1323
Benedict, F. D., 1247
Benedict, R. R., 1318
Benell, O. E., 68
Benjamin, A. E., 373
Benjamin, K., 1735
Benjamins, C. E., 1955
Bennett, C., 1661
Bensaude, R., 156
Benson, R. L., 513
Benson, W. N., 654
Béraud, 514
Berberich, J., 77, 316, 1173
v. Berde, K., 1406
Berek, M., 810
Beresneff, A., 80
Beretervide, J. J., 76, 726
Bergeim, O., 1161, 1796
Bergel, S., 77
Berger, E., 1809
Berger, S. S., *1114
Berghaus, 1257
Bergman, A., 1103
Bergström, E., 234, 234
Berkley, H. K., 1865
Berman, L., 903, 1396
Bernard, L., 656, 1871, 1948, 1949
Bernhard, A., 720
Bernhardt, H., 237, 1589
Bernheim, E., 521
Berri, P., 2005
Berry, J., 1167
Bersch, E., 1668
Bertin, E., 1324
Bertoye, 1663
Bertram, F., 236
Bertrand, I., 724
Bertrand, J. C., 519
Bertwistle, A. P., 984
Bettinotti, 989
Bettison, W. L., *609
Beumer, H., 159
Bevan, A. D., *591
Bezançon, F., 808, 914, 1665, 1804
Bharadwaj, A. C., 1585
Bicart, 1486
Bickel, G., 1666
Biedl, A., 658
Bierry, H., 1731
Bigelow, G. H., 1317
Bigger, I. A., 1867, 1868
Billmann, H. S., 80
Bilal, 1730
Billard, 1252
Bills, C. E., 1246
Binet, L., 155, 724, 1170
Binet, M. E., 1664
Bini, 915
Bird, C. E., *861, 1660
Birkhaug, K. E., 226, *1411
Birkholz, 1954
Bischoff, 657
Bischoff, H., 1407, 1876
Biscuertt, J. L., 315, 1951
Bitter, L., 1254
Bittman, F. R., 1315
Bittmann, O., 1487
Bittner, L. H., 1724
Black, A., 1246
Black, J. H., *324, 1151
Black, L. T., 305
Blackiock, D. B., 1249
Blaisdell, F. E., 1483
Blake, F. G., 307
Blalock, A., 904
Blamoutier, P., 380, 381, 1949
Blanc, G., 451, 517
Blanc-Perducet, 74
Blankenhorn, M. A., 649
Blatherwick, N. R., *178, 1247
Blau, N. F., 511
Bleyer, A., 977
Blitzstein, E. P., 979
Blitzstein, N. L., *675
Bloch, C. E., 660, 1479
Bloch, E., 1589
Bloch, G., 1733
Bloch, F. B., *1597
Bloch, W., 236
Blodinger, I., 1798
Bloise, N. L., 453
Blondeau, A., 1732
Bloodgood, J. C., 303
Bloom, W., 651
Bloomfield, A. L., 1936
Blum, J., *677
Blum, K., 1407
Blum, R., 1492
Blumenthal, F., 454, 1589
Blumer, G., 1161
Blunt, K., 1247
Bly, P. A., 1726, *1833
Boardman, W. W., 805
Boas, H., 991, 1258
Boas, I., 1406, 1874
Boas, M. A., 1399
Boase, A. J., 584
Boattini, G., 1873
Bobbio, L., 1733
Bochner, M., 719
Bock, A. V., 1936
Bock, J. C., 1865
Bockus, H. L., 1654
Bodnár, L., 79, 454, 1807
Böhm, 660
Boeri, G., 315
Bogen, E., *1891
Bohec, J., 1587
Boissel, G., 74, 75
Bojovitch, V., 314
Bok, S. T., 992
v. Bókay, J., 1254
Boldero, H. E. A., 1321
Bollman, J. L., 68, *186, 1938
Boltanski, 155
Bonaba, 989, 2005
Bonacorsi, L., 1253
Bonani, G., 156
Bonhoeffer, I. K., 1103
Bonilla, E., 985, 1324
Bonner, K. P. B., 1136
Bonnet, 1664
Bonney, V., 231
Bonnin, M., 725
Bonorino Udaondo, C., 157, 383
Boorstein, S. W., *617
Boquet, A., 986, 1587
Borchardt, 1736
Bordet, F., 808
Bordet, J., 1949
Bordier, H., 452, 726
Bordley, J., III, 1865
v. Boros, J., 1256
Borries, G. V. T., 1956
Boru, S., 730
de Bosch, A., 445, 1162
Bosch, G., 1951
Bosco, J. J., 235
Botey, R., 1735
Bottema, C. W., 1592
Botteselle, R., 1403
du Bouchet, N., 1252
Bouchut, L., 914
Bouet, O. A., 1738
Bouman, L., 80
Bourcart, A., 915
Bouvier, 155
Bowcock, H. M., *104
Bowden, R., *178
Bowman, J. T., *613
Bowman, K. M., 447
Boycott, A. E., 1099
Boyd, W., 582, 651
Boyksen, O., 1877
Braasch, W. F., 1942
Bradley, B., 1321
Bradley, J. I., 1479
Brady, L., 512
Braeucker, W., 1254
Braeuning, 159
Bragman, L. J., 58
Brahmachari, U. N., 515
Brahn, B., 454
Braithwaite, L. R., 1870
Brams, J., 653
Brams, W. A., *267, 653, *675
Bramwell, E., 232
Bramwell, J. C., 911
Brand, W., 1737
Brandenburg, K., 1874
Brandes, S., 1592
Brandess, T., 589
Brandt, R., 991, 1876
Brannan, J., 1164, 1656
Brannon, J. M., 981
Bratusch-Marrain, A., 658
Braun, H., 1875
Braun, L., 1658
Bray, H. A., 904
Brecher, E., 728
Breitner, B., 1174
Brenner, F. W., 588
Breton, 987
Breukink, H., 1326
Brewer, C. M., 226
Bridgman, E. W., 1394
Brigido, A., 1654
Briggs, R., 305
Brigham, F. G., 981
Brill, E., 317
Brill, C. A., 1481
Brindeau, A., 1486
Brines, O. A., 905
Brock, S., 447, 1654
Brocq-Rousseu, 808
Brodersen, N. H., 730
Brodie, J. L., 1801
Brodnitz, 918
Broeman, J. J., 1385
von Broich, H., 1255
Bronfenbrenner, J. J., 981, 1097
Brooks, E. H., 1868
Brooks, L., 805
Brossok, G., 729
Broussilovski, L., 913
Brouwer, E., 1492, 1592
Brouwer, G., 522
Brouwer-Frommann, H. M., 920
Brown, A. (Omaha), 373
Brown, A. (Toronto), 445, 445
Brown, A. L. (Cincinnati), 436
Brown, A. L. (New York), 980

Brown, D. A., *868
Brown, E. G., 806
Brown, F. R., 152
Brown, G. E., 649, 1160, 1578
Brown, G. T., 446, 1159
Brown, H., 716, 1866
Brown, H. C., 911
Brown, H. F. R., 1723
Brown, I. W. L., 312
Brown, L., 891
Brown, P. W., *457
Brown, R. T., 1937
Brown, W. E., 1725
Brown, W. H. (Glasgow), 1941
Brown, W. H. (New York), 1739
Browne, F. J., 1802
Brownlee, H. F., *193
Bruce, ?. W., 1243
Brühl, 1407
Brüning, F., 917
Brugi, A., 1404
Brugsch, 809
Bruhns, C., 1407
Bruhns, G., 1405
de Bruin, J., 456
Brunn, H., 905
Brushfield, T., 983
Bryan, L., 1725
Bublitschenko, L., 919
Bucka, E., 1255
Buckell, E. F. W., 378
Buckstein, J., *1128, *1834
Bucky, G., 78
Buendia, R., 1873
Bültemann, H., 1175
Bürgi, E., 1590
Bufalini, M., 1733
Bugbee, P. F., 1315
Buie, L. A., 581
Bulger, H. A., 980, 1318, 1318, 1480, 1580
Bullmore, H. H., 1803
Bullrich, R. A., 383, 809
Bulmer, E., 1870
Bulson, A. E., Jr., *246
Bumpus, H. C., Jr., 1164, 1942
Bund, R., 385
Bunker, H. A., Jr., 1796, *1815
Bunnell, S., 1799
Buntling, C. H., 1482
Burden, V. G., 1659
Burger, H., 722
Burgess, J. F., 376, 377
Burget, G. E., 68
Burghard, E., 1735, 1737
Burke, V., *529
Burnet, E., 1804
Burnett, F. L., 892
Burnier, 1586
Burrows, M. T., 1863
Busch, E., 1258
Buschke, A., 1104
Butler, E., 1660, 1865
Buzzard, E. F., 1321
Byrne, J., 1247
Byrnes, C. M., 1724
Bytsch, L., 1101

C

Cadarso, A. R., 231
Cady, L. D., *184
Caffey, J. P., 445, *1514
Caffier, P., 919
Cahn, R., 1100
Cain, A., 155, 1948
Cairns, H. W. B., 1803
Cajal, S. R., 1878
Cajori, F. H., 448, 1160
Caldwell, M. E., 150
Caldwell, W. E., 721
Calhoun, A. W., 718
Calhoun, T. B., *1428
Callegari, 1100
Callender, G. R., 579
Calmette, A., 580, 1322
Calvin, K., *1321
Camauer, A., F., 76
Camera, U., 1403, 1403
Cameron, A. T., 377, 1655
Cameron, G. R., 1728
Cammidge, P. J., 583
Camp, J. D., *164, 228
Campani, A., 1806
Campbell, A. R., 1394
Campbell, H. E., 582, 649
Campbell, J. A., 72, 807
Campos, E., 235, 1102
Camurati, M., 726, 915
Candy, T. I., 723
Cannata, S., 452
Canney, J. R. C., 1662
Cannon, D. J., 379
Cannon, W. B., 1159
Cantero, A., 582
Cantón, 156
Cantonnet, 1169
Capelle, W., 1172
de Capite, A., 382
Capizzano, N., 1806
Caplesco, P., 724
de Cárdenas y Pastor, J., 1587
Cardini, C., 453
Carelli, 1251
Carey, J. D., *1209
Carillon, R., 1733
Carleton, H. M., 1099
Carlill, H., 807
Carling, E. R., 152, 807
Carlos, E., 1799
Carlson, G. W., 1868
Carman, R. D., 228
Carnot, 381
Carothers, R., 302
Carp, E. A. D. E., 1492
Carr, E. B., 654
Carranza, C. G., 1253
Carrau, A., 1950
Carrea, J. U., 1874
Carrick, C. W., 68
Carrol, P. M., 1654
Carroll, G., *1833
Carter, C. L., 654
Carter, D. W., 876
Carter, G., 1484
Carter, R. F., 580
Carter, R. J., *1751
Cartledge, N. E. D., 313
Casaubón, 1405
Cascão de Anciães, 453
Caspari, J., 1954
Cassel, 455
Casselman, A. J., 1396
Cassidy, F. C., 1583
Cassuto, A., 1873
Casteigts, M. M., 383
Castellani, A., 153, *523, 892, 1891
Castelán, E., 1874
Castex, M. R., 76, 76, 76, 157, 383, 726, 988, 1102, 1251, 1251, 1252
Castle, W. F., 583
de Castro, B., Jr., 305
Castro Emía, 1404
Catalano, A., 1950
Cate, W. R., 1320
Cathala, F., 234
Cattaneo, G., 1733
Caublot, P., 987
Caufman, H., 988
Causade, G., 380, 1871
Cayrel, M., 1171
Ceconi, A., 1733
Cedercreutz, A., 386
Celiberti, 915
Centanni, E., 1403
Cervera, E., 1404
Cerriño, J. M., 1102
Cestan, R., 1488, 1489
Chabaud, 155
Chabrol, M., 74
Chacko, M. P., 1870
Chahovitch, X., 517
Challer, J., 980
Chambacher, C., 585
Chamberlain, R. S., *934
Chamberlain, W. B., *414
Chambers, H., 1399
Chambers, K. L., 1799
Champion, M. E., 1317
Chaney, M. S., 1247
Channon, H. J., 1398
Chanutin, A., 1318
Chaoul, H., 1737
Chapman, C.L.G., 1484
Chapman, E. F., 1249
Chapman, J.W., 306
Charles, A., 1399
Charleux, 1663
Chatillon, F., 1403
Chatin, J., 1101
Chatterjee, P., 379
Chatterji, K. K., 232
Chauffard, 1168
Chauvin, E., 1731, 1949
Cheatle, G. L., 1165
Chen, F. K., 807
Chen, S. P., 152
Cheney, G., *1904
Cherry, T. H., *1745
Chessin, W. R., 1491
Chesterman, C. C., 153
Chevallier, 1101
Chevki, M., 1731
Chevrier, L., 1170
Chiari, O. M., 1491
Chiari R., 317
Chick, H., 1399, 1399
Chiray, M., 1100, 1100, 1101
Chisolm, J. J., 511
Chitty, H., 1320
Chlumský, V., 318
Choay, A., 1402
Chopra, R. N., 1870, 1945
Choy, P. D., 1945
Christensen, E., 1489
Christensen, H. H., 373
Christensen, L. O., 80
Christian, H. A., 513, *993, 1307, *1499, 1930
Christian, T. D., Jr., 718
Christophe, L., 1871
Christopherson, J. B., 1099
Chucco, A., 453
Churchill, E. D., 1864
Churchman, J. W., 802
Cibils Aguirre, R., 235
Cieszynski, K., 912
di Cio, 76
Cirio, L., 1587
Cisternas, R., 1405
Ciuca, M., 988
Clairmont, P., 1667
Clark, E. D., *1339
Clark, E. P., 1865, 1866
Clark, G. F., 514
Clark, H., 981
Clark, J. B., *1189
Clark, L. P., 1581
Clark, N. E., 979
Clark, W. L., *595
Clarke, B. R., 1400
Clark-Kennedy, A. E., 985
Clausen, S. W., 980
Claveaux, E. M., 989
Clawson, B. J., 1160
Cleary, R. M., 1726
Cleland, J. B., 1728
Clément, 1168
Clerf, L. H., 309
Cloetta, M., 1384
Clough, R. W., *1339
Clow, F. R., 1979
Clute, H. M., *105, 1245
Cluzet, 1101
Cobb, S., *1884
Cobet, A., 1254
Coenen, P., 990
Coffey, R. C., 1579
Coffin, S. M., *408
Cohen, A. W., *947
Cohen, D., *947
Cohen, I., *1896, 2001
Cohen, M., 1164
Cohen, M. E., *1114, *1677
Cohen, P., 1243
Cohn, I., 301
Cohn, S., 917
Coke, F., 1320
Cokkalis, P., 589, 1172
Colby, W., *1000
Coldrey, R. S., 1870
Cole, H. N., 1316
Cole, R., 981
Cole, W. H. (St. Louis), *467, 651, *1899
Cole, W. H. (St. Paul), 1579
Coleman, C. C., 303
Coleman, E. P., 719
Coleman, F. S., 1802
Coleman, M., 378
Collaud, A., 1489
Colledge, L., 984
Collin, R., 1322
Collins, K. H., 307
Collip, J. B., 1865, 1866
Colonna, P. C., 2002
Colp, R., 580, 718, 1799
Colvin, L. T., 652
Comby, J., 154, 912, 912, 926, 1168, 1948
Comolli, 1587
Compagnon, A., 451
Comte, 914
Condamin, M., 1487
Connal, A., 153
Connerth, O., 1808
Connor, C. L., 1798
Connor, G. L., 957
Constant, A., 315
Conrad, C. E., 1243
Conseil, E., 1804
Cook, J. B., 1320
Cooke, A., 152
Cooke, R. A., 1721
Coombs, C. F., 733
Cooper, H. N., 1866
Coopermans, M. F., 1243
Cope, H. E., 1396
Copher, G. H., *467, 651, *1899
Copp, E. F. F., 1394
Corachán, M., 1735
Corbus, B. C., *114
Cordey, F., 656
Cords, R., 73
Cori, G. T., 71
Corley, R. C., 1246
Cornaz, G., 1805
Cornelius, 75
Cornet, H., 233
Cornioley, C., 1733
Cornwall, J. W., 1484, 1484, 1485
Cornwall, L. H., 304
Corper, H. J., 1657, *1739
Corson, J. F., 985
Cortesi, T., 518
Corwin, J., 1793
Costain, W. A., 1659
Coste, 381
Cottet, J., 1872
Cottle, M. H., 1939
Councill, W. A., *1907
Counseller, V. S., 1654
Courmont, P., 74, 75
Cousin, J., 155
Couto, M., 1947
Coutts, W. E., 315, 1951, 1951
Couvelaire, 154
Covarrúbias, P. A., 1404
Covey, C. B., 229
Cowan, J., 911
Cowan, J. F., 1483
Cowern, E. W., 58
Crainicianu, A., 2004
Crama, 1948
Cramer, A., 1324
Cramer, H., 1173
Cramer, W., 1399, 2003
Cratty, A. R., *749
Craver, L. F., 580
Crawford, H. de L., 1166
Crespo de Castro, H., 1806
Creed, E. ff., 1946
Creveld, 1952
Creynat, 452
Crichlow, R. S., 229, 1163
Criep, L. H., 579
Crile, D., 1659
Crissey, R. H., 652
di Cristina, G., 1666
Critchley, M., 584, 983
Crocco, 76
Crohn, B. B., 1480
Croll, M. M., 68
Cron, R. S., 1797
Crook, J. L., 302
Crouter, C. Y., 448, 1160
Crowe, S. J., 904
Crowell, C., 579
Crowell, D. P., *1283
Crowther, C. R., 984
Cruchaud, A., 235
Cruickshank, R., 654
Cruise, R., 723
Cruto, A., 985
Cullen, T. S., 718
Culver, G. D., *92, 652
Cumberbatch, E. P., 1661
Cumming, J., 909
Cumming, W. M., 313, 1585, 1585
Cunningham, L., 379
Cunningham, T. D., 228
Curtillet, J., 1487
Curtis, A. H., 582
Cushing, E. H., 1317
Cushing, H. B., 1666
Cutler, E. C., 905, 1651, *1972
Cutler, M., 651, *816
Czerny, 917, 917, 1491

D

Dack, G. M., 1395, 1395
Da Fano, C., 2003
Dahl, E., 238
Dahl-Iversen, E., 1665
Daland, E. M., *471
Daland, G. A., 979
Dale, N., 1947
Dalsace, J., 451
Dalsace, R., 1487
Dalsgaard-Nielsen, T., 1258
Damaso Rodrigo, 1950
Dambrin, 1730
Dameshek, W., 2001
Damez, M. K., *1420
Dandy, W. E., 1379
Daniello, 1871
Daniélopolu, D., 156, 989, 1098, 2004
Daniels, W. R., 653
Danzis, M., 1785
Darby, R., 1398
Da-Riu, O., 2005
Das Gupta, B. M., 1249
Dautrebande, L., 1323
Dautwitz, F., 317
David, 1100
David, A., 1169
Davies, H. M., 1249
Davies-Colley, R., 1166
Davis, C. H., *1763
Davis, E., 1726
Davis, H. H., *685
Davis, J. S., 302, *339, *1432
Davis, L. E., 905, *1890
Davis, N. C., 805
Davis, R. H., 1724
Davis, R. T., *1689
Davis, W. D., 1581
Dawson, P. M., *1420
Day, A. A., 1580
De, P., 1870
Deacon, J. N., 910
Deane, A., 1484
Dearholt, H., 145
Debbas, E., 1663
Debré, R., 450, 656, 1251, 1488, 1664, 1948
De Buys, L. R., 229
Decamps, N., 233
Dechaume, 1872
Decker, H. B., 1316
Decourt, 987, 1401, 1665, 1731, 1871
Deedera, C., 1096
Degkwitz, R., 236, 1174
Deglaude, 1664
De Graff, A. C., 1580
Dehler, S. A., 1798
Deicher, H., 77, 917, 1876
Dekester, 1100
DeKruif, M. F., *408
Delasi, R., 452
Delbet, P., 313
Delherm, 452
Delhougne, F., 917, 1588
Delitala, F., 726, 1403
Delmas-Marsalet, P., 1949
Delore, X., 452, 914
Delprat, G. D., 1660, 1865
Delrez, L., 233,
Demel, R., 79
Deming, C. L., *822
Demme, H., 316
DeMotte, R. J., 1657
Demuth, F., 657, 1877
Denecke, G., 1254, 1255
Denis, W., 67, 1246, 1319
Dennett, R. H., 721
Dennie, C., 1795
Dennis, F. L., 225
Denny, W. L., 1724
Denzer, B. S., *938
Derbyr, J., 977
Dereux, J., 1486
Derick, C. L., 1096
De River, J. P., *748
Dernby, K. G., 1941
Derkatsch, 1590
Derveaux, 912
von Deschwanden, J., 158
Desmarest, E., 1949
Desmon, P. M., *319
Destéfano, F., 76, 1735
Dethloff, H., 454
Deuskar, V. N., 1945
Deutsch, E., 1175
Dévé, F., 74
Dew, H. R., 153
De Wesselow, O. L. V., 73
Dexter, R., 978
Diamond, I. B., 717
Díaz Sarasola, R., 1807
Dick, J. S., 232
Dickens, F. F., 514
Dickerson, D. G., 1583
Dickey, L. B., *815
Dickie, W. M., 58
Dicks, J. F., 148
Dieterich, H., 77
Dietrich, A., 1952
Dietrich, H., 1865
Dietrich, S., 1589
Diez, 1486
Diez, S., 659
Digby, K. H., 911, 1096
Digiorgio, A. L., 383
Dill, P. W., 1581
Dillon, T., 437, 708
Dilling, W. J., 906
Dinsmore, R. S., 1164
Dinwiddie, R. B., 630
Dlos, J. L., 656, 1171, 1171
Dmitrieff, I. P., 1737
Doan, C. A., *1593, 1800
Doberauer, G., 1736
Doctor, A. R., *1110, 1800, 1800
Dodson, J. M., 64, 875
Döderlein, G., 727
Doerr, 1100
Dollinger, A., 1877
Domagk, G., 455
Donaldson, A. N., 1579
Donath, G., 1325
Donath, J., 1175, 1737
Donovan, T. F., 307
Doppler, K., 317, 1877
Dorn, M., *267
Dornier, 1732
Dorsett, L., 1393
Dott, N. M., 152
Douay, E., 1949
Doumer, R., 1322
Dore, W. E., 1316
Dow, O. D., 977
Downing, H. F., 1243
Downing, L., *550
Downs, A. W., 2002
Doxiades, L., 1490
Draganesco, S., 1665
Drake, T. G. H., 445, 445
Draper, 296
Dreifuss, W., 658
Drennan, A. M., 1802
Dresbach, M., 1725
Dresel, E. G., 2006
Dreyfus, G., 1588
Dreyfus, S., 987
Dreyfus-Sée, 1664
Drinker, C. K., 307
Driscoll, W., 1797
Drüner, L., 659
Drummond, J. C., 1167
Drury, A. N., 1728
Drury, D. W., 905
Dryerre, H., 1586

Du Bose, F. G., 302, 309
Dubost, 1101
Dudgeon, L. S., 985
Dufour, H., 1168
Dufourmentel, 586
Dufourt, A., 1251
Duggan, W. F., 1318
Duhem, P., 1170
Dujardin, B., 233
Dujarric de la Rivière, 74
Duke, W. W., 1316
Dumas, J., 1730
Dumitresco-Mante, 380, 1251
Dumollard, 1401
Duncan, A. G., 985
Duncan, E. E., 650
Duncan, J. T., 911
Dundas, J. D., 1870
Dunham, R. W., 228
Dunn, A. D., 148
Dunn, J. P. S., 1485
Dunn, L., 1660
Dupin, E. A., *749
Durham, O. C., *1204
Duval, P., 1663
Duvernay, L., 1805
Dworetzky, A., 1175, 1668
Dwyer, H. L., 445, 1319
Dyas, F. G., 373
Dyke, S. C., 152, 232, 1321
Dyroff, R., 318

E

Eagles, B. A., 70
East, C. F. T., 1250
Eastman, J. R., 581
Eaton, P., 147, 147
Ebaugh, F. G., 1245
Ebel, 728
Eberson, F., 1315
Eccles, W. M., 1249
Ecker, E. E., 1943
Eckstein, A., 316, 659, 659
Eckstein, O., 1733
v. Economo, C., 1808
Eddy, N. B., 2002
Eddy, W. H., 1722
Edelstein, E., 1877, 1877
Eden, R., 1172
Eder, H., *993
Edie, E. B., 66
Edington, G. H., 722
Edling, L., 988
Edmunds, A., 1321
Edmunds, C. W., 1995
Edwards, A. H., 1165
Edwards, J. G., 903
Eggleton, P., 311
Egoroff, B., 1911
Ehara, I., 1490
Ehrström, R., 386
Eichenlaub, F. J., 1583
Eidinow, A., 983
Einhorn, Max, 892, *1754
Einhorn, Moses, *1615
Eiselsberg, K. P., 1256
Eisendrath, D. N., *825
Eisenman, A. J., 1318, 1318, 1580
Eising, E. H., 1799
Eisinger, 1738
Eisler, M., 1954
Elberg, W., 384
Eldridge, W. A., 1654
Eldridge, W. W., 446
Ellas, H., 317
Eliasson, E. L., 1944
Ellassow, 77
Eliot, M. M., 1659
Eller, J. J., *886
Elliott, A. R., 651
Elliott, C., 143
Elliott, C. A., 1937
Ellis, J. D., *257
Elman, R., 226
Elschnig, A., 316
Elsner, H., 1257
Elston, L. W., 1940
Elvehjem, C. A., 1246
Ely, L. W., *1748
Emerson, C., 806
Emerson, C. P., 143, 149
Emerson, H., 143
Emerson, P. W., 445, 977
Emerson, W. R. P., 708, *1511
Emery, E. S., Jr., 579, 1864
Endres, G., 1103
Engel, S., 236, 727
Engelbrecht, C. H., 1669
Engelhard, A., 587
Engelmann, B., 1809
Enklaar, W. F., 1492
Enright, J. J., 1868
Eppinger, H., 2006
Epstein, A., 1101
Epstein, B., 658, 1406
Epstein, D., 159
Erb, I. H., 1797
Erb, K. H., 77
Erdmann, R., 1406
Erkes, F., 385
Escalier, A., 381, 1486, 1948
Esch, P., 1810
Escuder Núñez, P., 1665
Escudero, P., 76, 1102, 1103, 1404, 1951
Esmenard, 1731
Estapé, J. M., 989, 1950
Estella y B. de Castro, J., 1950
Esther, M., 1805
Etienne, 1488
Eufinger, E., 1491
Eusterman, G. B., 375, 1163
Evans, F. A., 981
Evans, M. J., 70, 70
Evans, W., 153
Everet, J. A., 307
Evers, E., 237, 1875
Evrard, 1871

F

Faber, K., 522
Fabricius-Møller, J., 1878
Faerber, E., 1173
Fahr, F., 907
Fairchild, F. R., 1864
Fairweather, D. S., 1803
Falci, E., 517
Falcioni, D., 1489
Falconer, A. W., 1168
Falconer, E. H., 1798
Falisi, J. V., 1653
Falk, I. S., 378, 378
Falk, R., 1669
Falls, F. H., 1797
Fantus, B., *34, *114, *195, *274, *347, *415, *483, *551, *623, *687, *750, *840, *950, *1007, *1129, *1210, *1284, *1347, *1438, *1524, *1623, *1690, *1767 *1836, *1909, *1981
Farmer, C. J., 511
Farmer, H. L., 1316
Farr, C. E., *1128
Farrell, J. I., 68
Farret, 1948
Fasano, M., 381
Faure, 1325, 1875
Faust-Newton, C., 1583
Featherstone, H. W., 1803
Fedeli, F., 2004
Feemster, L. C., 1655
Fehr, O., 1874
Feierabend, B., 80
Feinberg, S. M., 1164
Feissly, R., 158, 1804
Fejgin, M., 1160
Felberbaum, D., 1578
Feldman, M., 375
Feldman, R. G., 580
Fellows, F. M., 1485
Fels, E., 660
Felty, A. R., *1195
Fenger, M., 1258
Fenwick, C., 1098
Fergin, 452
Ferguson, E. L., 153
Ferguson, L. K., 1283
Ferguson, R. R., 145
Fernández, A. J., 382
Fernández, J. G., 657
Fernández, U., 235
Fernbach, 236
Fernström, B., 730
Ferrari, A., 656
Ferrari, P., 74
Ferrarini, G., 156
Ferrata, A., 315
Ferré, L., 724
Ferrero, V., 381
Ferroux, R., 655, 1487
Ferry, N. S., *932
Fetter, W. J., *749
Feuchtwanger, A., 1876
de Feyfer, F. M. G., 1326
Fichera, G., 656
Fickenwirth, W., 318
Field, R. S., 1942
Fiessinger, N., 725, 1169, 1323
Figari Legrand, E., 1102
Fildes, P., 2003
Finaly, R., 1811
Findlay, L., 1585
Fine, J., *1972
Fineman, A. H., *1429
Finesilver, B., 1578
Fink, E. B., 892
Finkelstein, H., 1325, 1668
Finsterer, H., 1668
Fiori, E., 1806
Fischer, A., 1176, 1257
Fischer, B., 315
Fischer, L., 1479
Fischer, O., 1406
Fischl, R., 657, 1406
Fishbein, M., *270
Fishberg, A. M., 148
Fisher, A. O., 2001
Fisher, J. L., *192
Fisher, L. W., *932
Fisher, N. F., 511
Fisher, W. A., Jr., *1675
Fitz, R., 306, 1248
Fitzgerald, R. R., 1394
Fitzgibbon, J. H., *622, *1614
Fitz-Hugh, T., Jr., 1864
Flandin, C., 1401
Flandrin, P., 1872
Flarer, F., 1950
Flatau, 520
Flatow, L., 78, 658, 1175
Flecker, E., 516
Fleischner, E. C., 295
Flesher, R. E., *1005
Flinn, F. B., 1162
Florey, G., 1099
Florey, H., 653
Flu, P. C., 318
Fock, E., 238
Fog, J., 1176
Fogelson, S. J., 1660
Fondarinova, O., 590
Fontaine, B. W., 1583
Fontaine, R., 1322, 1402, 1732, 1873
Foñtes, A., 1734
Foord, A. G., 1659
Forbes, A., *1884
Ford, A. P., 313
Ford, F. A., 1164
Ford, F. R., 446
Ford, G. S., 756
Fornet, W., 1489
Forsdike, S., 1484
Forssell, G., 1670
Forsyth, A. E., 1659
Fort, M. A., 1567
Foshay, L., 980, 1160, *1688
de Fossey, M., 1664
Fossier, A. E., 802
Foster, E., 809
Foster, N. B., 980, 1652
Fouché, 2004
Fouche, C. H., 1947
Fowler, J. F., 511
Fowweather, F. S., 1398, 1399, 1399
Fox, E. L., 1247
Fox, L. W., *404, 970
Fracassi, T., 383
Fränkel, A., 1874
Fränkel, R., 1103
Fraenkel, E., 384, 809
Fraenkel, H., 317
Francis, E., *1329
de Francisco, J., 1588
Frank, A., 657, 1953
Frank, E., 1953
Frank, M., 658, 1735
Frank, R. T., *1686
Frankel, F. H., 906
Franken, H., 660
Frankl, O., 148
Fraser, A. R., 312
Fraser, J. F., 376
Frazier, C. H., 1864
Frazier, W. C., 448
Fredet, P., 1949
Freed, H., 229, 904
Freeman, L., 374
Freiberg, A. F., *731
French, R. W., 1097
de Frenelle, D., 989
Frenkel, A., 659
Fresadieu, 1591
Freuchen, I., 80
Freud, J., 77
Freud, P., 384
Freudenberg, E., 1877
Freudenberg, K., 990
Freund, E., 1951
Freund, L., 1737
Frey, E., 654, 1876
Frey, S., 1173
Fribourg-Blanc, A., 380
Fried, B. M., 1245, 1654
Fried, C., 990
Friedberger, E., 2006
Friedemann, M., 79
Friedemann, U., 77, 917
Friedenwald, J., 375
Friedlander, E., 156
Friedlander, A., 445
Friedman, E., *934
v. Friedrich, L., 158, 158
Frimodt-Möller, C., 1663
Frisch, J. V., 1256
Frissell, L. F., *1903
Frobisher, M., 982
Fröhlich, A., 237, 237
Frölich, T., 1492
Froment, 1948
Frommel, E., 1666
Frontali, G., 916
Frost, K. P., 1480
Fründ, H., 1737
Frundel, C., 1587
Fry, C. C., 447
Fuchs, F., 1254
Fuchs, H. J., 316
Fuchs, J., 318
Fühner, H., 1667
Fülleborn, F., 315
Fuentealba, L. A., 315
Fürst, W., 1805
Fuhr, H., 1810
Fujimaki, Y., 1946
Fuld, J. E., *1281
Fullerton, A., 1166
Fulmer, E. I., 1938
Fulton, F. T., 649
Funariu, 1323
Furth, J., 1941
Fuss, E. M., 919

G

Gabe, W. E., 1580
Gais, E. S., 1939
Gál, 236
Galán, J. C., 157
Galant, J. S., 1256
Gáll, G., 991
Galli, P., 726
Gallo, C., 452
Gallusser, 1666
Galmiche, J. A., 716
Gammeltoft, 1258, 1812
Gandelsman, B., 1408
Ganit, W. H., 1657
Ganter, G., 919, 1175
Garbat, A. L., *601
García, F. R., 1806
García del Diestro, 235
García-Lagos, 156
Garcin, 724
Gardiner, J. P., *161
Gardner, L. L., 1801
Garelly, R., 1950
Garipuy, 1101, 1805
Garnier, M., 1486
Garrahan, J. P., 809, 989
Garrelon, L., 74, 451, 1252
Garrod, L. P., 911
Garvin, J. D., 228
Gassul, R., 1736
Gauss, C. J., 660, 1810
Gautier, P., 518
Gauvain, G., 983
Gavrila, 380
v. Gaza W., 1406, 1406
Gazzullo, 453
Geesink, A., 1326
Gelling, E. M. K., 1395
Gelser, G. M., 308
Genell, S., 1731
Gener, V., 1176
Georgesco, V., 987
Gérard, 913
Géraudel, E., 585
Gerbasi, M., 1171
Gerwer, A. W., 590
Gessell, A., *1277
de Geus, J. G. F., 1955
Ghiron, M., 915
Ghosh, N., 654
Giani, 915
Glaume, C., 1805
Gibbs, C. E., 375
Gibson, A. G., 516
Gibson, R. B., *1209
Gibson, R. M., 1320
Giddings, G., 1583
Glemsa, G., 728
Giffin, H. Z., 1578
Gigon, A., 726
Gilbert, 912
Gilbert, M., 1865
Gilbert, R., 378
Gilchrist, A. R., 1166
Giles, R. G., 304
Gilford, H., 1803
Gilkey, H. M., 1795
Gill, J. M., 1166
Gilman, P. K., 1578
Gilmore, S. G., 909
Gingold, D., 1795
Giordan, A. S., 1396
Giorgacopulo, D., 382
Girard, R., 986
Girault, 655
Giroux, R., 1730
Giroux, R., 1253
Giuffrè, M., 1403, 1873
Giurlí, A., 238
Glaister, J., Jr., 1728
Glanzmann, E., 158, 990
Gleich, M., *748
Glenny, A. T., 654
Gloyne, S. R., 1099
Gluzman, M., 385
Glynn, E., 1321
Godel, 987
Goebel, 913
Goebel, F., 454
Goebel, W. F., 227, 227
Goeckerman, W. H., 1480
Goff, B. B., 309
Goff, C. W., *392
Goforth, J. L., *1612
Gohrbandt, E., 520, 1667
Gola, I., 1871
Gola, S., 1730
Golffon, R., 451, 1664, 1948
Golay, J., 313
Gold, H., 1863
Goldberger, J., 1408
Goldberger, L. H., 977
Goldberger, M. A., *1686
Goldbladt, H., 1807
Goldblatt, D., *680
Goldenberg, L., 912
Goldener, E., 454
Goldscheider, 454
Goldstein, 384
Goldwater, S. S., 1218
Goldziéher, M., 1939
Golovanoff, M., 1252, 1252
Gonzalez, 1251, 1252
González, T., 453
González, H. S., 1405
Gonzalez Meneses y Jiménez, J., 1587
Goodhue, F. W., 1317
Goodman, H., *736
Goodman, W. D., 1942
Goodpasture, E. W., 651
Goodyear, H. M., *268
Gordon, B., 67, 304, 579, *1683, 1727
Gordon, J. K. M., *1119
Gordon, M. B., 149, 1943
Gordon, R. G., 909
Gordon, W., 983
Gordon, W. B., 1159
Gordonoff, T., 809, 1590
Gordon-Watson, C., 311
Gorer, P., 1727
Gosse, F., 1803
Gottesman, J. M., 1800
Gottlieb, J., 149
Gottschalk, A., 454
Gougerot, H., 451, 1402
Gould, V. L., 1164
Gourdon, 1252
Gournay, J. J., 154, 1322
Gowan, J. W., 716
Goyanes, J. J. B., 231
Grabfield, G. P., 1161
Grady, H. W., 1315
Graefner, 238
Gragert, O., 1807
Graham, E. A., *467, 651, 1315, *1899
Graham, R. S., *1899
Gram, C., 1176, 1956
Gram, H. C., 992
Granberg, K., 234
Grant, F. C., 1173, 1863
Graser, E., 79
Grau San Martin, R., 1588
Graves, G., 1867
Graves, M. L., 1867
Graves, O. T., 581
Graves, W. P., 148
Graves, W. W., 584
Gray, A. A., 984
Gray, A. L., 304
Gray, H. T., 1320
Gray, I., 579
Gray, S. H., 1655
Greenbaum, S. S., 376, *1273
Greenburg, L., 978
Greene, H. M., *391
Greenough, R. B., 906
Greenwald, I., 448, 1318
Grégoire, P., 236
Greig, D. M., 1945
Greig, W. M., 1799
Greil, A., 159
Gremels, H., 1802
Grenet, 1169
Greppi, E., 1103
Griffith, F. W., 302
Griffith, J. P. C., *828
Griffith, W. H., 1243
Grifols Roig, 315
Grineff, D., 1408
Griswold, D. M., 1136
Groebels, F., 1952
Grönholm, G., 386
v. Gröer, F., 1589
Grosh, L. C., 980
Gross, A., 448
Grossfeld, H., 1406
Grossmann, M., 1877
Grove, J. S., 1578
Grove, W. E., 1869
Gruber, C. M., 69, 1097, 1396
Gruca, A., 317
Grünbaum, 1952
Grubzit, G. M., 1316
Grunal, E., 644
Grunenberg, K., 1255
Guazon, P., 71, 1318
Guccl, G., 1489
Guccione, F., 1489
Gudjonsson, S. V., 1315
Güdemann, 317
Guénlot, F., 1486
Gürich, 455
Guérin, 1488
Guggenheimer, H., 1953
Guilbert, O. M., 1653
Guillain, G., 234, 314, 724, 724, 1251
Guillaume, 1871
Guillaumin, C. O., 451
Guillaumin, G., 1804
Guisez, J., 516, 808
Gumpert, M., 1104
Gundersen, E., 1258

Gundrum, L. K., 1244
Gunn, F. D., 1989
Gunn, J. W. C., 1168
Gunsett, A., 1487
Gurewitsch, G. M., 1491
Gurewitsch, M., 1807
Gussin, H. A., 378, 378
Gussio, S., 1666
Gustavson, E., 1812
von Gutfeld, F., 1953
Guth, 991, 1876
Guthrie, D., 303
Guthrie, T., 1663
Gutiérrez, A., 382, 1943
Guttentag, O. E., 159
Gutzelt, K., 1254
Guyer, M. F., 1077
Gye, W. E., 1812
György, P., 990, 1876, 1953
Gyal, H., 1173

H

Haas, S. L., 1799
Habbe, E., *476
Haberlandt, L., 79, 1876
Haden, R. L., 1396, 1867, 1867, 1941
Hadfield, G., 723
Haecker, V., 1873
Haehn, H., 1876
Händel, 1325
Häusler, 1589
Hagen, H. J., 1578
Hagenbuch, M., 810
Hagens, G., 992
Hager, B. H., 1248
Haggard, H. W., 1936
Haggard, W. D., 64, 1292
Hagie, F. E., *840
Hagner, F. R., 302
Haguenau, 981
Haidvogl, M., 1491
Hain, R. F., 1248
Haines, C. F., *1767
Hainsworth, R. L., *1677
Hajek, J., *1903
Halbertsma, J. J., Jr., 1670
Hall, J. N., 367
Hall, M. W., 579
Hall, R., 1953
Halliday, J. L., 1585, 1661
Hallibay, H., 1165
Hamblen, A. C., *1408
Hamburger, 1948
Hamburger, C., 809
Hamburger, E. J., 992
Hamburger, F., 658
Hamburger, L. P., 1483
Hamburger, R., 1255
Hamburger, W. W., 650
Hamilton, R. E., 1164
Hamilton, C. K., 1803
Hamilton, T. G., 225, 377
Hamilton, W. F., 1160
Hamman, L., 1865
Hammett, F. S., 149, 1656
Hanau, 1588
Hance, J. B., 1945
Hancher, K. G., 511
Handovsky, H., 521
Hanger, F. M., 1800
Hannema, L. S., 723
Hanneman, Y., 1326
Hans, H., 236, 1
Hansen, S., 1956
Hansmann, G. H., 1482
Hanson, E. L., *1689
Hanson, H., *548
Hansson, F. S., 730
Hanzlik, P. J., 805
Harbin, R. M., 1319
Harbitz, H. F., 238, 1939
Hardesty, W. L., 1581
Harding, A. R. B., 2003
Harding, V. J., 978
Harigopal, A. R., 1870
Harkins, M. J., 716
Harmer, I. M., 1728
Harned, B. K., 69
Harrenstein, H. J., 660
Harris, H. A., 72
Harris, J. S., 984, 1803, 1869
Harris, L. J., 311
Harris, R., 232
Harris, R. H., 373
Harris, R. I., 2002
Harris, T. J., *830
Harrison, E. D., 1868
Harrison, G. A., 986, 1398
Hart, A. P., 377
Hart, E. B., 69, 448, 1246, 1246
Hart, P. C., 727
Hartley, P., 2003
Hartman, C. C., 981
Hartmann, A., 1876
Hartmann, H., 912, 1943
Hartmann, M., 918
Hartsock, C. L., *1334
Harvier, P., 1871
Haskell, C. C., 649
Hassin, G. B., 717, 1245
Hastings, D. R., 1581
Hastings, E. G., 448
Hatal, K., 1663
Hatch, E. S., 1319
Hatziegianu, J., 1871
Hauch, E., 100
Hauduroy, 450, 517, 1664
Hauffe, B., 919
Haugseth, K., 1878
Haupt, W., 1326
Hauser, E. D. W., 904, 1317
Hausmann, M., 1101
Havard, R. E., 1398, 1802
Havens, L. C., 1798
Havlicek, H., 1911
Hawes, J. B., 1161
Hawk, P. B., 1796
Hawkins, J. A., 228, 981
Hayden, R. L., 374
Hayem, G., 724
Hayes, E. W., 904
Hayman, J. M., Jr., 226
Hazen, E. L., 1315
Hazen, H. H., 71
Head, J. R., 1660
Healey, W. P., 650
Henly, F. H., 1319
Heard, J. D., 1539
Heatley, C. A., *1195
Hecht, A. F., 521
Hecht, H., 520
Heckford, F., 910
Heckscher, H., 727, 1670
Hedblom, C. A., 374
Heiberg, K. A., 1738
Heiberg, P., 654
Heidelberger, M., 227, 227
Heidenreich, 1251
Heilborn, F., 1809
Heilig, R., 1737
Heim, F., 156
Heinonen, J., 1258
Heinrich, 588
Heissen, F., 521
Hektoen, L., *576, *1333
Heller, J., 1174
Heller, V. G., 1938
Hellmuth, K., 1325, 1807
Hellmuth Hempel, 315
Helmholz, H. F., 721, 1942
Helper, A. B., 718
Helsingen, N., 920
Helwig, F. C., 445, *1766
Henderson, M. S., *81, 372
Henderson, W. E., 1725
Henderson, Y., 515, 584
Hendon, G. A., 1660
Hendricks, W. A., 908, 1579
Henkel, M., 1952
Henley, R. R., 306
Henning, N., 1255
Henriksen, 585, 655
Henry, A., 912
Henry, C., 1167
Henry, H., 1663
Henry, T. A., 910
Henschen, S. E., 589, 1944
Hepler, A. B., 1798
Herapath, C. E. K., 1586
Herbst, R. H., 903
Hercus, C. E., 654
Herd, S. B., 984
Herderschée, 522
d'Herelle, F., 451, 517
Herman, L., 1665
Hernaman-Johnson, F., 1320
Herold, K., 1256
Herrera, L., 157
Herrick, J. B., *1
Herrick, T. P., 1795
Herrick, W. W., 1793
Herrmann, E. (Freiburg), 1172
Herrmann, E. (Halle), 455
Herrmann, G., 316
Herrmann, S. F., 1726
Herrmannsdorfer, A., 810
Herrold, R. D., *413, *747, 1800
Hertzenberg, L., 584
Hertzler, A. E., 1393, 1785
Hervouet, D., 155
Herzfeld, E., 237
Herzog, 520
Hesnard, A., 1871
Hess, A. F., 1479
Hess, E., 71
Hess, L., 1954
Hesse, E., 1810
Hetényi, G., 455
Hetényi, S., 237
Heubner, W., 1173, 1808
Heuser, C., 232, 1735
Hewer, C. L., 1802
Hewitt, H. W., 652
Heyer, G. R., 237
Heyerdahl, S. A., 983
Heymann, B., 990, 1589
Heyn, L. G., 1580
Hickmans, E. M., 1795
Hicks, C. S., 1802
Hicks, J. A. B., 152
Hieronymi, E., 384
Higgins, H. L., 1243
Higgins, J. A., 307
Hilgermann, 1737
Hill, E., 1247
Hill, J. H., 1724
Hill, N. H., 311
Hillier, A., 1580
Hilliard, E. T., 584
Hilpert, A., 1255
Hindes, E., 1951
Hines, L. E., 1482
Hinman, F., 718, *921, 1579, 1726, 1798
Hinton, J. W., 1244, 1577
Hirchberg, 585
Hirsch, A., 1954
Hirsch, C., 588, 657
Hirsch, E. F., 378, 651
Hirsch, G., 590
Hirsch, H., 1407
Hirsch, L., 236, 1254, 1876
Hirsch, O., 918
Hirsch, P., 1953
Hirst, L. F., 515
Hirszfeld, L., 1402, 1953
His, W., 1103
Hisinger-Jägerskiöld, E., 160
Hitchens, F., 1657
Hittmair, A., 521, 521
Hjelt, S., 386
Hjort, A. M., 70
Hoag, L. A., *1343
Hochsinger, K., 1256
Hodge, E. H. V., 72
Hodges, J. A., 1868
Hoehne, O., 1811
Hörnicke, E., 1174
Hofbauer, J., 1395
Hofbauer, L., 237, 1256
Hoff, F., 1403
Hoffman, S. J., *945
Hoffmann, E., 1174
Hoffmann, V., 316
Hoffstatt, R. E., 147
Hogue, M. J., 979
Hohn, J., 1809
Holbøll, 238, 590, 988, 1176, 1256
Holder, H. G., 581
Hollander, N., 234, 234
Hollender, A. R., 1939
Holloway, J. K., 1247
Holly, G. M., 1315
Holman, E., 227, 227, 1245
Holmes, A. D., 1483
Holmes, G. W., 649
Holst, J., 1258
Holst, J. E., 456
Hood, A. J., 1578
Hoppert, C. A., 1246
Hornback, J. T., 644
Horning, E. S., 583
Horowitz-Wlassowa, L., 917
Horsley, J. S., *664
Horsters, 809
Horváth, B., 384
Horwitz, H. L., 228
Hoskins, R. G., 69, 149
Hottinger, A., 1325
Hotz, G., 606
Hough, H. B., 1315
Houssay, 74, 74
Houston, N. R., 654
Howard, H. W., 1248
Howard, R. L., 151
Howe, L., *415
Howe, P. R., 717
Howell, B. W., 911
Howell, W. C., 395
Howk, H. J., 116
Hoyne, A. L., 906
Hubbard, R. S., 375
Huber, H. L., 979
Huddleston, J. F., *943
Huddleson, J. H., *1960
Huddy, G. P. B., 1165
Hudelo, 808
Hübener, G., 158, 455
Huenekens, E. J., *1000
Hueper, W., 1480
Huet, P. A., 1323
Hughes, J. S., 1246
Hughes, T. A., 515, 1249
Hughson, W., *1275, 1660
Hull, T. G., 720
Hulst, J. P. L., 1670
Hundley, J. M., Jr., *603
Hunt, R. C., 1164
Hunt, F. L., 651
Hunt, V. C., 1579
Hunter, G., 70
Hunter, J. A., 1728
Hunter, O. B., 446
Hunter, W. C., 513
Huntoon, F. M., 1995
Huntsinger, M. E., 149, 149, 149
Hupper, M., 511
Hurst, E. W., 72, 1099, 1944
Hurxthal, L. M., 1936
Hustinx, E., 1812
Hylton, R., 516

I

Ibuka, K., 1796; 1796
Ichok, G., 75
Idzerda, 1955
Iglauer, S., *1879
Ignacio, M., 1942
Ignacio, P., 1318
Iliescu, M. O., 986
Illingsworth, C. F. W., 311
Ingaramo, C., 915
Ingelrans, P., 1402
Ingram, P. C. P., 1728
Insfrán, J. Y., *735
Invernizzi, G., 1253
Ionescо, D., 517
Irons, E. E., *996
Isaac-Georges, 1169
Isaac-Krieger, K., 1875
Isaacs, B. L., *1821
Isaacs, R., 1159, *1185, *1265
Isbert, H., 990
Isenschmid, R., 452
Ishikawa, T., 1168
Ishiyama, F., 231
Israel, A., 1103
Israelson, M. M., 585
Ivanissevich, O., 586
Ivy, A. C., 68, 68, 1315
Iwanoff-Gluchowa, K., 589
Iyengar, K. R. K., 1485
Izabolinsky, M., 1257

J

Jachia, A., 156
Jackson, C., *414, 720, 905
Jackson, D. E., 150
Jackson, H., Jr., 1318
Jackson, H. P., 805; correction, 1483
Jackson, R., 1999
Jacob, L., 1407
Jacobovics, B., 1406
Jacobson, E., 1956
Jacobson, H. P., 805; correction, 1483
Jacobson, M. A., 378, 378
Jacobson, T., 224
Jacobson, V. C., 1482
Jacobsthal, E., 917
Jacoby, H., 727
Jacquelin, 1665
Jacques, L., 1482
Jadassohn, J., 316, 1490
Jaffe, H. L., 1809
Jaffé, R., 1667
Jaffe, R. H., 717, 1315
Jahnel, F., 1737
Jaksch-Wartenhorst, R., 1954
James, E., 1485
Janossy, J., 384
Janota, O., 238
Janoušek, S., 522
Jansen, M., 1324
Jansson, G., 1258
Januschke, H., 1490
Janzen, E., 86
Jaquerod, M., 452
Jarno, L., 1952
Jaroschka, K., 1736
Jarotzky, 76, 729, 1489
Jarvis, N. D., *1339
Jaur, 1731
Jeanselme, E., 1586
Jefferson, G., 311
Jefferson, J. C., 909
Jelenkiewicz, L., 585
Jenke, 1876
Jenks, D., 1098
Jensen, A., 992
Jersild, O., 1956
Jessen, P., 1480
Jessen, H., 992
Jessup, W. A., 694
Jettmar, H. M., 1167, 1400
Jewett, C. H., 1160
Jiménez, J. B., 382
Joachimovits, R., 1407
Joannidès, G., 451
Joannides, M., 1481, *1518
Jochwelt, F. B., 317
Joe, A., 1166
Joekes, T., 379
Joël, E., 1490
Jörgensen, G., 589
Joest, E., 1173
Johannessohn, F., 77
Johannsen, N., 238
John, H. J., 69, 1482, 1637, 1863
Johnsen, S. W., *31, 892
Johnson, C. K., 652
Johnson, F. M., 1244
Johnson, F. W., 1944
Johnson, L. W., *14
Johnson, S. J., 147
Johnston, C. G., 1164
Jolly, G. G., 1945
Jones, A. E., *1606
Jones, H. W. (Liverpool), 1098
Jones, H. W. (Philadelphia), 1160, *1673
Jones, J. O., 1479
Jones, L. T., 69
Jones, R. L., 1938
Jones, T. B., 1164
Jones, T. D., 1792
Jonesco, N., 1168
de Jong, H., 920
de Jong, S. I., 450, 450, 1170
de Jongh, S. E., 727, 1592
Jonnesco, T., 517
Jordan, E. O., *177
Jordan, H. W., 1090
Josefson, A., 1666
Josephs, H., 512, 1243
Jostes, F. A., 1164
Jovin, 725
Judd, C. H., 756
Judd, E. S., 582, *1107, 1659, 1801
Jürgensen, E., 384
Julian, F. B., 1802
Julianelle, L. A., 1097, 1097
Jundell, I., 1492
Junge, G., 1668
Jungmann, 316
Jungmann, P., 1953
Junkermann, K., 1809
Junkin, C., *479
Juster, E., 725
Juster, M. E., 586

K

Kaboth, G., 520
Kahn, B. S., *1761, 1865
Kahn, I. S., *346, 904
Kahn, M., 374
Kahn, R., 77, 77
Kaïrlukschtis, V., 1667
Kalk, H., 455, 727, 917, 1405, 1491
Kamenetzky, P. M., 1737
Kamenew, 1173
Kamman, G. R., 1726
Kamnitzer, P., 454, 1255, 1325
Kanavel, A. B., *1890
Kaneko, Y., 1811
Kantor, J. L., *289
Kaplan, A., 1238
Kaplan, B., *1197, 1801
Kaplan, M., 1401
Kappis, M., 79
Kapsinow, R., 1244
Kapur, N. C., 654
Karásek, F., 522
Karger, P., 77, 1667
Kark, S. E., 450
Kasanin, Y., 981
Kasanin, J., 1161
Kaspar, F., 1807
Katz, H., 1248, 1807
Kaufbüsch, N., 1254
Kauf, E., 1326
Kauffmann, F., 991
Kaufmann, H., 1730
Kaupe, U., 1173
Kawamura, R., 981
Kay, W. E., 1578
Keaton, J. C., 653
Keefer, C. S., 1481, 1936, 1941
Keegan, J. J., 44
Keene, F. E., 148
Keiller, W., 376
Keilty, R. A., 1866
Keith, N. M., 1666, 1863
Kelen, A., 317, 1325
Keller, P., 1785
Keller, W., 454, 1589
Kelley, F. B., 906
Kellogg, F. S., 1393
Kelly, E. A., 1096
Kelly, R. L., 1396
Kemp, T., 1956
Kendall, A. I., *737, 1580
Kennaway, E., 1098
Kennedy, C., 1938
Kennedy, J., 310
Kennedy, W. H., *1907
Kennedy, W. T., 650
Kermorgant, 655, 1947
Kern, R. A., 582, *623, 980
Kerr, D. J. A., 984
Kerr, S. E., 1865
Kerr, W. J., 148, 1864
Kesael, F., 449
Kessler, G. L., *32
Key, J. A., 806
Keyesser, F., 1589
Kfoury, 1251
Khodr, O., 1175
Khouri, J., 724
Kiær, S., 655
Kidston, T. A., 1400
Kiefer, E. D., 981
Kienlin, H., 1669
Kikuth, 1736
Kilbane, E. F., 582, 1796
Kilbourn, L. G., 1320
Kilgore, A. M., *186
King, E. L., *1117
Kingery, L. B., 716
Kinnear, W. L., 1398

Kipnis, B., 1172
Kirby-Smith, J. L., 1316
Kirchner, W. C. G., 303
Kirschner, M., 1171
Kisch, 2006
Kissling, W., 455
Kitayama, O., 982
Klauder, J. V., *536
Klebanoff, H. E., 1798
Klee, P., 587
Kleesattel, H., 1325
Klein, O., 237, 1174
Kleinschmidt, H., 316
Kleist, K., 990
Klemperer, F., 1103
Kletzien, S. W. F., 1246
Kline, B. S., *928
Klingenstein, P., 580, 718
Klinke, K., 1256
Klionsky, G., 807
Klopstock, A., 1255
Klopstock, F., 1172
Klug, W. J., 1172, 1953
Knaggs, R. L., 152
Knapp, A., *1759
Knapper, C., 80
Knaus, H. H., 307, 1166
Knizazeff, 1878
Knight, H. F., 148
Knipping, H. W., 317, 1876
Knopf, S. A., 905
Knowles, F. C., 1316
Koch, F., 237
Koch, F. C., 903
Kochmann, R., 919, 1737, 1875
Koehler, A. E., 68
Köhler, H., 919, 1809
König, 1737
Koennecke, W., 587
Koessler, K. K., 979, *1204
Kofler, L., 1805
Kofoid, C. A., 58, 1866
Kogan, V. M., 1173
Kohler, H., 1172
Kohn, H., 1589
Kohn, L. A., 1480
Kolischer, G., *1606
Kollár, I., 1256
Kolle, K., 1809
Kolle, W., 588, 1589, 1875
Koller, T., 519
Kolodny, A., *397, 717, 718, 1799, 1939
Konjetzny, G. E., 917
Koo, B. Y. S., 1320
Koontz, A. R., 226, 1164, 2001
Kopstein, F., 1591
Korb, C., 981, 1097
Korbsch, R., 1954
Koref, O., 658, 1173
Korenchevsky, V., 231
Kornbuber, B., 159
Korns, J. H., 152
Korns, H. M., 1938
Korobkova, E., 730
de Korte, 1955
Koshina, M., 982
Koskowski, W., 1315
Kotzulla, 1808
Kovács, N., 1954
Kovacs, R., *741, 969
Kowarski, A., 521
Krabbe, K. H., 1165
Kramer, P. H., 991
Kramer, S. E., 1578
Kramer-Petersen, 1326
Krantz, W., 1172
Krasnow, F., 1724
Krasso, H., 1668
Kraul, L., 79, 1668, 1807
Kraus, E. J., 1736
Kraus, F., (Berlin), 917
Kraus, F., (Prague), 78
Kraus, R., 384, 1809
Krause, A., 1100
Krauss, E., 917
Krebs, H. A., 1490
Krecar, F., 238
Krecke, A., 1591
Kremer, W., 1953
Kretschmer, E., 588
Kretschmer, H. L., 374, *739
Kretschmer, M., 237
Kreyberg, L., 71
Krikorian, K. S., 514
Kristjansen, A., 386
Kritzman, S. S., 585
Krogh, M., 1670
Krogius, A., 160
Kroh, F., 236
Kronenberger, 1810
Kross, 978
Krukenberg, H., 1590
Krumbhaar, E. B., 70, 70, 579, 1794
Kubányi, A., 1490, 1667
Kubik, J., 1953
Kudrnáč, 729
Küchens, H., 236
Kulenkampff, D., 1811
Kulhugin, 1104
Kung, H. W., 805
Kure, S., 227
Kurokawa, 1953
Kusama, S., 312
Kuss, G., 74
Kustner, H., 919
Kuttner, A. G., 981
Kwasniewski, S., 917, 1255
Kwilecki, D., 1407
Kylin, E., 588, 920, 1490

L

de la Alberca, E. L., 586
Labbé, 154, 380, 655, 1730, 1731, 2004
La Bier, C. R., 150
Laborde, 1488
Labry, R., 914, 1169
Lacassagne, A., 655, 912
Lack, V., 1485
Lackner, J. E., 582
Laclau, N., 988
Lacy, G. R., 308
Laederich, 724
Läwen, A., 1810
Lafferty, R. H., 304
de la Fuente, R., 1489
Lagemann, C., 1254
Lagravinese, N., 915
Lahey, F. H., *813, 1164, 1245, 1944
Lahz, R. B., 1803
Laignel-Lavastine, 75
Lalor, P., 1400
Lamb, F. W. M., 985, 1870
Lamb, H. D., 1581
Lambert, A. V. S., 1159, 1577
Lambert, M., 233
Lambert, R. A., 305
Lambert, R. K., 1802
Lambert, S. M., 584
Lamble, C. G., 910
Lampé, A. E., 588
Lampe, W., 315, 659
Lampert, F., 1408
Lanuy, 1664
Lanari, E., 1734
Landa, P. A., 453
Landau, A., 452, 1160
Landis, E. M., 1791
Landsteiner, K., 981
Lane, C. G., 1316
Lanford, J. A., 1583
Lang, E., 1174
Lang, F. J., 150
Lange, 1325, 1875
Langelaan, J. W., 913
Langenskiöld, F., 1670
Langer, E., 1736
Langer, H., 1588
Langeron, 517, 1872
Langley, J. N., 72
Lankford, B., 1393
Lankhout, J., 522
Lanz, O., 1875
Lapicque, M., 987
Laquerrière, 452
Laqueur, E., 727
Laquière, M., 313
Larimore, J. W., 2001
Larini, D., 1806
Laroche, 234
La Rossa, F. B., 1873
Larson, E., 511
Larson, W. P., *998, *1000
Lasch, C. H., 1667
Lasch, F., 1490
Lasersohn, M., 581
Lash, A. F., 1164, *1197, *1427, 1801
Lasher, W. W., *680
Lassalle, 1489, 1805
Latimer, E. O., 1797
Latzel, R., 237
Laubry, C., 1664
Laurens, G., 233
Laurens, H., 1798
Laurent, C., 516
Lauter, S., 1588
Lautman, M. F., 1316
Laux, 587
Lavan, J. L., *839
de Lavergne, V., 1664
Law, A. A., 373, 1581
Lawrence, J. F., 1936
Lawrence, R. D., 1728
Lawson, T. C., 1244
Lax, F., 1876
Leach, C. N., 1798
Lebée, 1169
Le Blanc, E., 1591
Leblois, 912
Lebon, 1100
Leborgne, 989
Lebreton, P., 1726
Lecène, P., 913
Leche, S., 67
Lechelle, 234, 724
LeCoque, J., 1248
Le Count, E. R., 717
Ledbetter, P. V., 649
Leddig, K., 1171
Leddy, E. T., 70
Lederer, M., 1876
Ledingham, J. C. G., 1586
LeDoux, L. A., 1797
Lee, B. J., *250
Lee, C., 1318, 1318, 1580
Lee, M. O., 1656
Leech, B. B., 723
Leendertz, G., 1173
Leffmann, H., 1714
Le Gendre, P., 75
Le Grand, A., 451, 1322
Lehmann, J. C., 810
Lehmann, W., 316, 1171, 1668, 1808
von Lehoczky-Semmelweis, K., 520
Lehrnbecher, A., 587
Leimdörfer, A., 659, 1256
Leiri, F., 1812
Leitner, P., 589
Lejard, 380
Lelong, M., 1251
Lemaire, A., 1323, 1871
Lemann, I. L., 1097
Lemke, R., 1103
Lemon, W. S., 309, 905
Lenaz, L., 1589
Lencl, P., 519
Lendon, A. A., 449
Lenk, R., 317
Lennox, W. G., 1246
LeNoir, P., 1402
Lentini Dia, J., 1735
Leo, E., 1403
León, N., 1404, 1489
Léonard, R., 2004
Leonardi, G., 982, 1243
Leonardo, R. A., 1579
Leone, P., 1873
Leoper, M., 1871
Lepbosky, C., 69, 448
Le Rasle, H., 234
Lereboullet, P., 154, 1322
Lérí, 155
Leriche, R., 725, 1252, 1322, 1665, 1732
Le Roy y Cassá, J., 1588
Leschke, E., 1236
Lesbure, J., *550
Lesné, E., 234, 585, 1664
Lesser, H., 69
Lester, F. W., *1123
Lestocquoy, 1170
Lestrade, A., 1731
Lesure, 987, 1665
Letulle, M., 233, 1804
Leunbach, J. H., 160
Leunda, 989
Lev, M. W., 650
Levaditi, C., 1489
Léval, M., 809
Leven, J., 381
Levi, P., 1655
Levine, S. A., 1728, 1793
Levine, S. Z., 448, 1479
Levinson, A., 445, 1161
Lévy, G., 518, 1322, 1873
Lévy-Franckel, 725
Lewis, A. K., *1683
Lewis, B., *1835
Lewis, D., 1380, *1493
Lewis, F. C., 1663
Lewis, F. P., *415
Lewis, N. D. C., 375
Lewisohn, R., 580
Lewit, S. G., 521
Leyton, O., 312
Leyva Pereira, L., 586
Lhermitte, J., 808, 913, 1322
L'Heureux, M., 1402
Li, T. M., 449
Lian, C., 1587
Liberson, F. G., 1723
Licht, 1736
von Lichtenberg, 159
Lichtenstein, A., 158
Lichtwitz, 987
Lichtwitz, O., 1104
Lichty, J. A., 375, 1160
Lieben, S., 455
Lieber, G. D., 1591
Liebmann, E., 1253
Liebmann, S., 455
Liek, 236, 520
Liepmann, W., 1257
Lignac, G. O. E., 318
Lihotzky, 1408
Lijo Pavía, 383
Liles, R. T., 1097
Liljestrand, G., 456, 456, 456
Liljestrand, S. H., 70
Lim, C. E., 449
Lim, R. K. S., 68
Lin, C. S., 1167
Lindauer, F., 660
Lindberg, K., 386
Lindblom, A. F., 1878
Linder, G. C., 1580
Lindsay, J. J., 1943
Lindsay, J. W., *1191
Lindsey, M., *748
Ling, C. H., 70
Lintz, J., 1654
Lipkin, J., 1257
Lipshutz, B., *99
Little, E. M., 310, 1803
Litzner, S., 78, 1173, 1811
Livermore, G. R., 229
Lloyd, E. I., 1398
Locke, C. E., Jr., 1654
Lockwood, C. D., 374
Loeb, L., 1479
Loeb, M. J., *1345
Löffler, W., 1173
Löhr, W., 1254
Loeper, M., 75, 725, 987, 1401, 1486, 1665, 1731
v. Lösecke, H., 1588
Loeser, A., 1175
Loevenhart, A. S., 68
Loewe, S., 1325, 1875
Löwenberg, W., 1407, 1736
Löwenstein, E., 1668
Loewenthal, S., 810
Loewi, 1589
Löwy, J., 729, 1407, 1667
Logan, A. H., 979
Loktionowa, N., 1171
Lombard, C., 724
Lombard, H. L., 1317
Lombardi, C., 156
Lombardi, E., 1255
Lomholt, S., 386
Lonergan, R. C., 1939
Long, J. H., 512
Long, M. L., 1247
Long, P. H., 1479, 1940, 1940
Long, W. L., 70
Longpre, 1666
López Ianardi, N., 809
Lorente de Nó, R., 386
Lortat-Jacob, 725
Losio, L., 915
Louros, N. C., 159, 728, 1807
Love, G. R., 720
Lowenburg, H., *99
Lubarsky, V., 1104
Lucherini, T., 586, 915
Lucha, L., 520, 1590
Luck, J. M., 653
Ludlow, A. I., 1945
Ludlum, S. D., *835
Ludwig, F., 1257, 1325
Luedde, W. H., *415
Lukacs, T., 1243
Lund, R., 1738
Lundberg, E., 318
Lunde, N., 1176
Lundsgaard, C., 590, 988, 1176, 1326, 1812, 1812
Luque, 1169
Lurie, L. A., 150
Lurz, L., 589
Lušicky, K., 1877
Lussana, S., 726
Lutembacher, R., 516
Lwoff, A., 655
Lynch, C. J., 982, 1800
Lynham, J. E. A., 1945
Lynn, G., 1400
Lyon, E. C., Jr., 650
Lyon, M. W., Jr., *264

M

McAdoo, H. W., 229
McArthur, L. L., 308
McCardle, W. J., 1803
McCarthy, J. E., 68
MacCharles, M. R., 447
Macciotta, G., 382
McClintic, C. F., 227
McClure, C. W., 149, 149, 149
McCollum, E. V., 1722
McCord, C. P., *1687, *1979
McCordock, H. A., 513
McCormick, C. O., 148
McCowan, P. K., 1803, 1869
McCoy, C. C., *1899
M'Crea, E. D., 233
McCrudden, F. H., *535
McCurry, W. E., 1800
MacDermot, H. E., 2002
McDonald, E., *835
MacDougall, J. G., 1655
McDougall, W., 583
McEachern, J., *90
McElroy, W. S., *1765
MacErlean, D. A., 807
McEwan, P., 1098
McGehee, J. L., 301
McGlasson, I. L., 376
McHutchison, J. P., 1729
McIndoe, A., 1654
McIntosh, J. F., 1580
McIntyre, A. P., 581, 1654
MacIntyre, D., 1803
McIntyre, H. D., 581, 1654
McJunkin, F. A., 979
McKail, D., 1162
McKay, A. C., 1803
MacKay, E. M., 1800
Mackay, H. M. M., 722, 1398
MacKay, L. L., 1800
MacKee, G. M., 367
Mackenna, R. W., 378
Mackenzie, A. S., 631
MacKenzie, D. W., 309
Mackenzie, G. M., *462
McKenzie, K. G., 225
McKenzie, R. B., 805
Mackenzie, W., 1164
McKinley, J. C., 716
Macklin, M. T., *613
Maclachlan, W. W. G., 579, *749
Macmaire, A. S., *332, 579, *670
McLaughlin, P. B., 1317
Maclean, H., 723
MacLean, S., 445
McLellan, D., 583
MacLeod, G., 1247
McLester, J. S., 908
McMahon, B. T., 1653
McMaster, P. D., 226
McNealy, R. W., 309, *1968
McNee, J. W., 73
Macomber, D., 1483, 1582
McQueeney, A., 1096
McRae, D. F., 377
M'Swiney, B. A., 235
McVicar, C. S., 1651
Madlener, F., 919
Maes, U., 303
Magalhães, M., 1806
Magelssen, A., 920
Magne, 455
Magni, L., 1806
Mahaim, I., 1324
Maier, E., 1738
Mainini, C. G., 450
Maitra, G. C., 1585
Major, R. H., *1125, *1766, 1794
Makan, D. J., 484
Mallory, F. B., 651, 1654
Mallory, W. J., 1657
Maluschew, D., 1669
Manalang, C., 1946
Manaker, P., 1808
Mandl, F., 385, 1104
Manheims, P. J., 720, 1939
Mann, C. R., 629
Mann, F. C., 1938
Mann, S. A., 1803, 1869
Manolloff, E. O., 455
Manoliu, E., 988
Manoussian, 74
Manson-Bahr, P., 807
Mantz, 1173
Manville, I. A., 1801
Manwaring, W. H., *1271
Maplestone, I. P. A., 1249
Maragliano, D., 915
Marañon, G., 452, 905, 1404, 1676
Marbel, M. M., *1980
Marcellus, M. B., 229
Marchal, G., 75, 725
Marchand, J. H., 156
Marchbanks, H. E., 806
Marcus, H., 386
Marenco, E., 1735
Margarucci, O., 916
Margulis, M., 519
Marie, A., 1486
Marine, D., 1482
Marinesco, M. G., 1251, 1665
Marino, S., 489
Marjanko, 452
Markowitz, J., 1315
Marks, H. P., 72
Marmorston, S., 453
Marques, A., 235
Marqués Bertrán, V., 587
Marrack, J., 653
Marriott, K., 1583
Marsh, M. C., 71
Marsh, P. L., 148
Marshall, V. F., 1868
Martenstein, H., 1590
Martin, L., 1938
Martin, W. B., 1583
Martindale, L., 984
Martinez, F., 453
Martinez, P., 157
Martínez-Zuviría, E., 235
Martini, T., 1404
Martiny, M., 155
Martius, H., 660
Martzloff, K. H., 1582
Marx, H., 316, 1103
Marxer, O. A., 73
Masmontell, F., 381
Mason, E. H., 2002
Mason, J. T., 374, 2001
Mason, V. H., 984
Massa, M., 1253
Massaro, A. F., 71
Massey, A., 1945
Master, A. W., 1160
Mas y Magro, F., 587
Mathis, D., *1420
Mathur, S. N., 72
Matthes, M., 1171
Matthey, R., 1252
Mattli, H., 1875
Matton, M., 1728

Matz, P. B., 909, 1583
Mauerer, E., 79
Maurer, A., 1170
Maurer, E., 659
Mauro, G.,1253
Mautner, H., 658, 1173
Mavor, O. H., 1632
Maximow, A. A., 150
Maxwell, J. P., 910
May, E., 1100
Maybury, B. C., 152
Maydl, V., 1668
Mayer, A., 1491
Mayer, M., 1736
Mayer-List, R., 455
Mayo, C. H., 908, 1579
Mayo, W. J., 444, 1796
Mayr, J. K., 657
Mazzeo, A., 1666
Meade, H. S., 1485
Meagher, J. L., 910
Meek, W. J., 148, 1725
Meier-Müller, H., 1733
Meige, H., 585
Meinecke, T., 1174
Meirowsky, 1667
Meisen, V., 80
Melchior, E., 237, 1736
Melkersson, E., 730
Mella, H., 1654
Mellanby, E., 1584
Mello, B. G. v. B., 153
Meller, J., 1258
Meller, R., 1810
Melletti, M., 234
Mellion, J., *677, 977
Mello, S., 1406
Melo, N. L., 1102
Melvin, J. T., 1579
Mendel, L. B., 68
Mendenhall, W. L., 149
Mendilaharzu, J. R., 809
Mendoza-Guanzon, M. P., 1727
Menees, T. O., *1730
Menéndez, 989
Menetrier, P., 1322
Menninger, W. C., 581
Menon, K. R., 1485
Mériel, P., 1101
Merke, F., 914
Merklen, P., 74, 1486, 1918
Merlo, E. V., 76
Mérola, L., 157
Merrin, A., 1802
Mester, E., 1736
Métalnikov, 313
Metcalf, K. M., 977
Metzenbaum, M., *193
Metzger, H., 1810
Metzler, F., 1808
Meulengracht, E., 590
Meyer, E., 521
Meyer, H. (Göttingen), 587
Meyer, H. (Leipzig), 237
Meyer, J., *1821
Meyer, K. A., 653
Meyer, K. F., 1394, 1801
Meyer, L. F., 384
Meyer, P., 1322
Meyer, S., 658
Meyer, W., 1307
Meyer, W. B., 383
Meyerding, H. W., 228
Meyer-Wirz, C., 1170
v. Mezö, A., 1669
Michail, D., 1665
Michel, F., 1733
Michelson, I. D., 301
Michon, L., 155
Middleton, W. S., 1796
Mignot, R., 580
Mikulowski, V., 154, 1324
Milano, M., 1404
Miles, L. M., 1943
Millian, G., 1402
Millikan, W., 1955
Millar, W. G., 233, 1586
Miller, A. J., 982
Miller, C., 1319
Miller, C. P., 981
Miller, J., 151
Miller, J. A., 1159, 1577
Miller, J. L., 444
Miller, J. A., 1582
Miller, R., 1869
Miller, W. S., 903
Mills, C. P., 1320
Mills, R. G., 978
Millzner, R. J., 904
Minami, S., 1490
Minkin, S., 520
Minkowski, O., 1736
Mino, P., 1733
Minot, R. R., *1185, *1265
Mirtovsky, N., 1326
Mishtchenko, L., 1408
Miskdjian, H., 716, 1316
Mitchell, A. G., 1940
Mitchell, R., 447
Mitra, P. N., 1249
Mitrovitch, L., 1402, 1402
Mixter, W. J., 580
Miyagawa, Y., 231
Mizell, G. C., 908
Mó, A., 1951
Mock, H. E., *257, *541
Mocquot, P., 314
Modigliano, E., 808
Modinos, P., 1486
Moehlig, R. C., 228
Moeller, E., 988, 1176
Moersch, H. J., 1161
Moetsch, J. C., 907
Moglia, J., 234
Moïse, T. S., *661, 1660
Mole, H. G., 1099
Mole, R. H., 910
Molinelli, 74, 74
Moll, H.H., 985
v. Mollendorff, W., 658
Molnar, A. L., 158
Mommer, E., 659
Monahan, J. J., 1796
Monateri, G., 1253
Moncrieff, A., 911
Mondolfo, E., 586
Money, R. A., 450
Monod, 1487
Monroe, R. T., 1864
Monsarrat, K. W., 1584
Monson, R. B. P., 1400
Montague, O. C., 149
Montenegro, J., 1316
Montes, L. A., 656
Montgomery, E. W., 1655
Montgomery, D. W., *92, 652
Montpellier, 1401
Moore, C. U., 1801
Moore, D., *1329
Moore, J. M., 1246
Moore, M. C., *324
Moore, R. S., 1659
Moore, S., *467, *1899
Moorhead, T. G., 1662
Moppett, W. J., 1670
Mora, J. M., *945
Morawitz, P., 78, 810
Moreira, M. V. da S., 913
Morel, C., 1730
Morgan, A. F., 1246
Morgan, G. S., 1248
Morgan, Z., 375
Morgenstern, J., 1256
Morgulis, S., 1246
Moriarty, M., 977
Morin, J. E., 1098
Morison, R., 1164
Moritz, A. R., 1246
Moro, E., 454, 1589
Morpurgo, B., 1733
Morquio, L., 157, 453, 986, 2004
Morris, H. H., 70
Morris, R. M., 807
Morrison, J. T., 1586
Morrison, T. H., 375
Morrissey, E. J., 718, *1828
Morse, H. D., 582
Morse, W., 1714
Morsman, C. F., 1785
Morson, A. C., 1250, 1319
Morton, I. J. J., 1483
Morville, P., 386
Moschkowski, S., 454
Mosser, W. B., 1483
Mosti, R., 915
Mosto, D., 74, 809
Moulonguet, P., 913
Moure, P., 1169
Mouriquand, G., 1663, 2004
Moutier, F., 655, 2004
Mouzon, 808
Mras, F., 918
Much, H., 317, 1491
Mudalair, M. R. G., 1485
Muehlberger, C. W., 1725
Müllecke, A., 1172
Müller, E., 1104
von Müller, E., 1257
Mueller, E. A., 79
Müller, E. F., 728, 1172
Mueller, J. H., 1096
Müller, L., 1669
Müller, O. (Basel), 76
Müller, O. (Tübingen), 158
Müller, R., 991, 1876
Müller, W., 1491
Münch, H., 1407
Münch, K., 589
Muggia, A., 1325
Mukherjee, H. N., 1384
Muller, G. L., 1941
Muller, M. L., 1955
Munck, W., 1812
Munk, J., 1955
Munns, G. F., 1795
Muñoz Arbat, J., 587
Munro, D., 512
Munro, W. T., 584, 1585
Munteanu, G., 988
Muntendam, P., Jr., 1326
Munter, F., 1255
Mura, E., 1253
von Muralt, F. L., 517
Murphy, D. P., *33, *395
Murphy, F. D., 1578, 1957
Murphy, J. B., 226, 227, *1270
Murphy, W. P., 306, 1162
Murray, M., *1420
Muschat, M., 1580, 1942
Musgrave, W. E., *1644
Musser, J. H., 304
Mussey, R. D., 650, 1393, 1660
Mutermilch, S., 451, 912
Muzeneek, P., 2005
Myers, C. N., 304
Myers, J. A., 1581
Myers, V. C., 1481
Myers, W. A., *1198
Mygind, S. H., 1956
Myhrman, G., 588

N

Naccarati, S., 1581
Nachlas, I. W., 1483
Nadler, W. H., 902
Naegeli, O., 726
Nárvi, E. J., 1670
Nagell, H., 384
Nagy, G., 77
Nakahara, 1811
Narath, A., 159
Narr, F. C., 579
Nassau, E., 384, 1407, 1953
Nasso, I., 452, 726
Nastasi, A., 726
Nathansohn, A., 917
Natvig, H., 920
Naujoks, H., 318, 919
Navarro, 157, 519, 727
Nayak, K. M., 1249
Nazarle, V., 74
Neal, J. B., *6
Neel, A. V., 720
Neely, J. W., *1210
Nègre, L., 986, 1587
Negro, M., 1403
Negus, V. E., 1946
Neisser, E., 727
Nellet, K., 728
Nelson, S. H., 984
Nelson, V. E., 1938
Nemenoff, M., 160
Nepveux, 380, 655
Nesselrode, C. C., 372
Netter, A., 1322
Neubürger, K., 728
Neuburger, J., 454
Neuda, P., 1174
Neufeld, F., 917
Neuhof, H., 2001
Neumann, H. O., 810, 1257, 1326
Neumann, W., 659
Neumark, 659
Neve, E. F., 1484
Nevin, M., 1315
Nevodoff, A. P., 1402
Newburgh, L. H., 148
Newell, E. D., 302
Newton, E. B., 1318
Newton, J. L., *529
Ney, K. W., 1378
Nice, C. M., 1931
Nicholas, F. G., 1321
Nichols, E. J., 305, 1657
Nichols, J. B., 67
Nichols, J. H., 1317
Nicloux, M., 988, 988
Nicolas, M., 913
Nicolau, S., 1581, 1489
Nicolaysen, K., 730, 730
Nicolle, C., 1804
Niedermeyer, 991
Niehaus, F. W., *685
Nielsen, 307
Nielsen, J. M., *683
Nigro, D. M., 652
Nissen, R., 589
Nisaler, C. W., 1160
Nobécourt, P., 1872
Nobel, 1174
Noble, T. P., 904, 1317
Nocht, B., 315
Noguchi, H., *1327
Noltmann, R., 1257
Nonne, M., 316
Nonnenbruch, 78
Noon, C., 379
v. Noorden, K. H., Jr., 384
Nord, F. F., 154
Norris, C. C., 148
Norris, R. J., 581, 1654
Nortell, J. L., 1655
Norton, J. F., 978
Norwood, V., 1394
Nott, H.W.,583
Nourse, J. D., 1482
Novak, E., *189, *1105
Novak, J., 1738, 1878
Norick, N., 1724
Noyes, B. Jr., *1239
Nuelle, M., 659
Nürnberger, L., 1738
Nutt, M. M., 2003
Nuttall, H. C. W., 984
Nuzum, F. R., 1578

O

Obarrio, J. M., 1587
Ober, F. R., *1813
O'Brien, W. A., 71
Ockerblad, N. F., 71
O'Connor, D. S., 1164
O'Conor, J., 378, 1584
Odeneal, T. H., 904
Odriozola, S., 519
Oehlecker, F., 1737
O'Flynn, E., 584
Oginz, P., 1944
O'Hare, J. P., 718
Ohashi, T., 1491
Ohnesorge, V., 385
Okamoto, T., 2006
Okell, C. C., 1321
O'Kelly, W. D., 379
O'Leary, P. A., 1480
Olinesco, R., 1251
Oliver, E. A., 902
Oliver, J., 1247
Ollivier, 1401, 1486, 1665, 1871
Olmstead, H. C., 1481
Opie, E. L., 1941
Opity, 917, 990, 1808
Oppenheim, F., 910
Oppenheimer, B. S., 148
Oppenheimer, J., 991
Orahovats, D., 72
Orcutt, M. L., 1247
Ordway, T., *1671
Orel, H., 1407
Orgaz, J., 1253
Oriani, F., 2004
Ormond, J. K., 1942
Ormerod, P. G., 1585
Ornstein, F., 810
Ornstein, L., 988
Ornstein, O., 1589
Orr, P. F., *1340
Orr, T. G., 374, 1867, 1941
Ortiz, 454
Ortner, N., 1876
Osborn, D. F., 1246
Osborn, S. H., 146
Osborne, E. D., 376
Osborne, O. T., 571
Oschmann, A., 988
Oslund, R. M., *1755
Ossoinig, K., 658
Ostrčil, A., 318
Oswald, A., 1873
Ott, W. O., 1867
Otten, L., 1955
Ottenheimer, J. E., 306
Otto, H. L., 1863
Owen, R. G., 1396

P

Pacetto, G., 234
Pache, H., 1733
Pacheco, G., 1734
Pachon, V., 1949
Paffrath, H., 316
Pagliere, L. E., 1102
Pagniez, P., 380, 381, 1486, 1948
Painter, C. F., *341, 1864
Palacios Costa, N., 453
Palmer, L. S., 1938
Pancoast, H. K., 304
Pande, B. D., 1870
Pangalos, G., 451, 517
Panisset, L., 912, 1251
Pannett, C. A., 722, 807
v. Pannewitz, G., 1408
Pansini, G., 916
Papadopoulo, J. P., 233
Papanicolaou, G. N., *1422
Papillian, 1323, 1323
Papp, C., 1253
Pappalardo, C., 518
Pardee, H. E. B., 1160, 1384, 1582
Parhon, C. J., 987
Parisot, J., 1948
Park, L. W., 230
Parker, G. H., 1247
Parker, S. T., 1480
Parkinson, J., 985
Parks, B. S., 720
Parks, T. E., 1938
Parrish, R. E., *33
Parsons, L. G., 1584, 1795
Parturier, G., 1169, 1169, 1403
Paschkis, K., 455
Patek, A. J., *944
Patel, M., 1169
Paterson, D., 1869
Paton, N., 583
Patrick, A., 514
Patterson, D., 1398
Patterson, H. A., 1655
Patterson, N., 984
Patterson, S. W., 232
Pauchet, V., 308, 585
Paulicek, E., 316
Paulin, A., 912
Paullin, J. E., 1160
Paulsen, A. E., *1519, *1617, *1692
Pavel, I., 1101
Payan, L., 1252
Payne, C. F., 906
Payne, L. F., 1246
Peacock, A. H., 1248
Pearce, L., 1941
Pearse, I. H., 2003
Pearson, S. V., 909
Pearl, R., 1655
Pease, C. N., *1282
Peck, S. M., 1939
Peck, W. B., 436, 756
Peckham, C. H., 1656
Peet, M. M., *1818
Peiper, A., 1252
Pekarek, F., 1491
Pelnář, J., 729
Pelouze, P. S., *684
Pemberton, H. S., 379
Pemberton, R., 448, 1160
Pendergrass, E. P., 304
Pendleton, L., 1320
Peppel, O. P., 1796
Percival, G. H., 230, 1166, 1586
Perdrau, J. R., 2003
Périsson, 1251
Perkins, G. A., 721
Perla, D., 1396
Pernin, G. E., 920
Péron, 726
Perrot, C., 1732, 1805
Perthes, G., 589, 1810
Pesch, K. L., 316
Peschié, S., 385
Peshkin, M. M., *1429
Peters, J. P., 980, 1318, 1318, 1480, 1580
Petersen, E., 1812
Petersen, W. F., 1172
Peterson, C. A., 1696
Peterson, E. A., 1995
Peterson, E. W., 1478
Peterson, H. A., 449
Petit, C., 1587
Petit, G., 1251
Petiti, E., 1253
Petoniaud, 1872
Petrie, J. M., 1321
Pette, H., 1876
Pettinari, V., 1731
Petzetakis, 914
Peyre, E., 451
Peyrer, K., 918
Peyrot, R., 518
Pezzoutti, L., 1806
Pfab, B., 237
Pfeiffer, 75
Pfeiffer, H., 1809
Phaneuf, L. E., *931
Phelps, A. E., *1824
Phemister, D. B., 902
Phillbert, A., 808, 914
Philipp, 810
Philippson, L., 1734
Phillips, B. B., *169
Philips, J., 1319
Phillips, C. C., 304
Phillips, E. W., *182
Phillips, L., 910
Phillips, W. C., *1259, 1293
Piccininni, F., 1255
Pick, E., 1668
Pickar, R., 1408
Pico, 74
Piercy, H. D., *1690
Pierl, G., 518, 1733
Pierret, 987
Piersol, G. M., 1654
Piéry, 1101
Pietranera, E., 809
Piette, E. C., 1655
Pigott, G., 1493
Pijper, A., 154
Pilcher, J. D., 978, 978
Pilot, L., 977
Pimentel, Bueno, A. L., 519
Pinard, M., 725
Pinchin, A. J. S., 232, 313
Pineda, E. V., 721
Pinerau, O., 1490
Pines, N., 312
Pinkhof, H., 1669
Pinkhof, J., 991
Pinner, M., 305, 2006
Pirard, L., 1806
Pirk, L., 158
Pischzek, 1591
Pissavy, A., 808
Place, E. H., 915
Plant, J. S., 1245
Platou, E., 1878
Platt, H., 1165
Platt, R., 985
Platte, T. H. M., 1592
Plaut, 1667
Plaut, F.,1737
Player, L. P., *17
Pletneff, D., 1738
Pletnew, D., 237

Plummer, E. C., 1250
Pogorschelsky, 659
Pohl, W., 1588
Pohle, E. A., *818
Poincloux, 1489
Poiré, A. F., 809
Poirier, 1805
Polak, J. O., 994
Polgár, F., 1736
Policard, A., 1252
Pollak, E., 1954
Pollitzer, H., 1256
Pollock, J. E., 652
Pollock, L. J., 902
Pólya, E., 919
Pomeroy, E. S., *1897
Pomeroy, J. K., 447
Pomeroy, L. A., 579
Ponce de León, M., 1873
Ponder, E., 1586
Pons, C. A., 150
Pons, R., 313
Pontano, T., 1806
Poole, A. K., 1656
Popoff, E., 729
Popoviciu, 1876
Popow, W. J., 384
Porcher, P., 655
Porges, O., 158, 1172, 1952
Porru, E., 2005
Portis, B., *836, 902
Portis, M. M., 902
Portis, S. A., *836
Portu Pereyra, E., 235, 989, 1950
Posey, W. C., *415
Post, H., 990
Postma, C., 1669
Potter, J. C., 1248
Potter, J. E., 1867
Poulsson, E., 588
Poussepg, L., 1730
Powell, D. D., 1940
Powell, R. D., 723
Poynton, F. J., 1397
Prager, 1951
Pratt, I. H., 2000
Pratt, J. P., *1964
Preissecker, E., 1175
Presser, K., 1876
Preston, R. S., 1584
Pribram, E., 316, 919
Price, F. W., 723
Price-Jones, C., 1099
Priesel, R., 990
Prigge, R., 1406
Prigosen, R. E., 70
Prinz, R., 1406
Pritchard, S., *1119
Proca, G. G., 2004
Proescher, F., 720, 1098
Progulski, S., 1589, 1731
Prucha, M. J., 981
Pryor, J. C., 891
Puchulu, 1103
Pucsko, O., 455
Puente, J. J., 74
Pusey, W. A., *1501
Putti, V., 915, 1943
Putzig, 1877
Pyles, R. H., 306

Q

Quain, E. P., 373
Quick, D., 651, 1943
Quinn, M. J., 1161
Quintana, J. A., 453

R

Raaflaub, W., 159
Rabinovich, R., 988
Rabinowitch, I. M., 69, 225, 377
Rabinowitsch, J. S., 1737
Rabl, C. R. H., 237
Rachet, 1871
Rackemann, F. M., 1483
Rademaker, G. A., 1592
Radovici, A., 1872
Raffo, E., 511
Rafsky, H. A., *1754
Raimondi, A. A., 453
Raimundo, J. M., 1101
Raiziss, G. W., 907
Ramadier, J., 1169
Ramirez, J., 1727
Ramon, 1730
Ramon, G., 1099, 1323
Ramon, T. K., 1485
Ramos, S., 1948
Ramos Passos, J. R., 913
Ramsay, J. C., 514
Ramsay, R. A., 311
Ransom, S. W., *1886
Rappleye, W. C., 1078
Rasch, W., 1670
Rathery, F., 1948
Ravault, P. P., 914
Ravenel, M. P., 571
Ravina, A., 725, 914
Raw, N., 1661
Rawls, R. M., 308
Ray, L. A., 583
Ray, M. B., 1586
Razetti, L., 1588
Read, J. M., 1578
Reay, G. A., 1398, 1802
Rebaudi, U., 314
Redeker, F., 2006
Redenbaugh, H. E., 511
Redewill, F. H., *17, 1867
Redfern, W. W., 1723
Redlich, F., 1173, 1589, 1668, 1731
Reed, A. G., 1723
Reed, C. I., 68, 68, 68, 903, 1798
Reenstierna, J., 986
Reese, H. H., 1578
Regan, J. C., *181, 445, *1116
Regnatz, 1487, 1497
Regelsberger, H., 1171
Rehfuss, M. E., 1796
Rehn, C. L., 78
Rehn, E., 728, 729
Reichle, A., 1877
Reid, C., 653
Reid, J., 810
Reid, M. R., 904
Reilingh, W., 992
Reimann, H. A., 1097, 1097
Reimold, W., 1490, 1737
Reinhard, M., 71
Reinhold, 383
Reiss, P., 317
Reiter, H., 1589, 1590, 1953
Reith, A. F., *325
Rejsek, J., 1323
Rekling, E., 1258
Remlinger, P., 451, 987
Remmelts, R., 1591
Rémond, A., 74
Renaud, A., 1170
Renaud, M., 1100, 1170
Rendu, 586
Renner, C., 385
Rensshaw, A., 1162
Repetto, 1251
Repond, A., 913
Reschid, A. F., 1951
Resnik, W. H., 377, 377, 979, 1481, 1941
Révész, T., 77, 1878
Reyher, 1405
de Reynier, L., 1488
Rezek, P., 810
de Rezende, C., 1950
Rezzesi, F., 1403
Rheaume, P. Z., 518
Rhinehold, J. G., 511
Rhode, C. 309
Rhodes, G. B., 720
Ribeiro, L., 1102
Ribierre, P., 655
Ribolla, R., 1399
Ricaldoni, A., 724
Ricciardi, L., 1873
Riccio, R., 1873
Rice, E. C., *1191
Rice, J. B., *191
Ricen, L., 1801
Richard, 1731, 1871
Richards, A. N., 448, 579
Richardson, A. M., 65
Richardson, E. P., 1164
Richardson, H. B., 448, 1657
Richdorf, L. F., 1243
Richter, H. M., *927
Riddell, A. R., 908
Riding, D., 1249
Riecker, H. H., 649
Riedel, W., 585
Rieder, W. (Hamburg-Eppendorf), 919
Rieger, H., 520
Rienhoff, W. F., Jr., 226, 1319
Riess, P., 317
Riggs, M .D., 1318
Rimé, G., 988
Rioch, M. G., 1655
del Río Hortega, P., 1664
Riser, 1488
Risquez, F. A., 1806
Rist, 155
Ritossa, P., 382
Ritter, H. H., *680
Ritzmann, H., 79
Rivarola, 519, 1102
de Rivas, D., 979
Rivas Morales, J. C., 1806
Rivers, A. B., 375
Rivers, T. M., 1247
Rives, L., 1730
Rivkin, H., *1343, 1479
Roantree, R. P., *1345
Roark, J. L., *1683
Robb, A. G., 722
Roberts, F. L., 1483
Roberts, R. E., 1098
Roberts, S. R., 1948
Robertson, G., 1869
Robertson, T. B., 583
Robertson Lavalle, C., 916, 1587
Robinovitch, L. G., 906
Robinson, C. A., 1661
Robinson, H. R., 1660
Roccavilla, A., 1663
Roche, J., 988
Rockwood, R., 1660
Rodella, M., 235, 235
Rodiet, A., 988
Rodin, F. H., *1613
Rodman, J. S., 956
Rodriguez, G., 1588
Rodriguez, J., 315
Roe, J. D., 1657
Roe, J. H., *1761, 1865
Roeghoft, M. N., 238, 238
Römcke, O., 730
Roesch, J., 1731, 1871
Roese, G., 521
Roffo, A. H., 519, 1877
Rogatz, J. L., 1479
Rogers, F. T., 1938
Rogers, H., 306
Rogers, J., 511, 1944
Rogers, W. A., *26, 806
Rohde, C., 1807
Rohdenburg, E. L., 1481
Rohner, F. J., 1482
Rol, G., 1805
Rojas, F., 1404
v. Rokay, Z., 990
Rolleston, J. D., 1946
Rollet, 154
Rolnick, H. C., *1831
Romano, N., 76, 383, 1522
Rondoni, P., 1590
Root, H. F., 718, 1396, 1479
Rosanova, E., 730
Roscoe, M. H., 1399
Rose, M. S., 1247
Rosen, I., 1724
Rosenbaum, 658
Rosenblüth, 1174
Rosenfeld, H., 1589
Rosenhagen, H., 1257
Rosenheck, C., *169
Rosenow, E. C., *9, 719
Rosenstein, P., 1809
Rosenthal, 1736
Rosenzuaig, 1325
Roskam, J., 233
Roskin, I. G., 238
Ross, G. R., 1663
Ross, I. C., 1167
Ross, J. W., 1655
Rossi, C., 1408
Rossius, L., 520
Rothberger, C. J., 237, 1256
Rothenberg, S., 1247
Rothschild, D., 1655
Routhier, C., 1403
Roubitschek, 317
Rougemont, 452
Rougichitch, G. S., 1795
Rouquier, A., 988
Roussiacroix, 808
Roussy, G., 992, 1322, 1873
Roux, G., 1587
Roux, J. C., 655
Rovsing, T., 1875
Rowe, A. H., 306, 977
Rowen, H. S., 651
Rowland, J. M. H., 582
Rowley, R. L., 1135
Rowntree, L. G., 649
Roy, J. N., 512
Royer, B. F., *1571
Rubaschow, S., 79
Rubenstone, A. I., 1244, 1866
Rubeška, V., 1104
Rucker, M. P., 1393
Rudinger, G. de M., 514
Rueda, P., 727
Rupel, E., *544
Rusca, 314
Rusche, C. F., 1864
Rush, H. P., 69
Ruskin, S. L., 512
Ryan, E. J., 651
Rydin, H., 234, 234
Ryle, J. A., 1870

S

Sabalitschka, T., 316
Sabouraud, R., 725
Sabrazès, J., 912, 1732
Sacerdote, G., 381
Sachs, E., 1318
Sachs, M., 1668
Sadi de Buen, 587
Sadovnikova-Koltzova, B., 1104
Sachof, C. C., *747
Sáenz, A., 916
Sagal, Z., 1930
Sagawa, E., 1811
Sagura, E. V., 1734
Saidman, J., 75
de Saint-David, 2004
St. George, A. V., 980
Saint-Girons, 154
St. John, J. H., *1272
St. Lorant, I., 1173
de Saint-Martin, 1488
Sainz de Aja, E. A., 382
Saitz, C., 522
Sakurabayashi, K., 1168
Sala, A., 76
Saldanha, A., 76
Salén, E. B., 1878
Salistowskaja, E., 1254, 1254
Salleras, J., 656
Salmon, A., 382
Salomon, H., 1405
Salomon, M., 233
Salomonsen, L., 1492
Samet, B., 2006
Sampson, J. A., 148
v. Samson-Himmelstjerna, H., 2006
Samuels, S. S., 1245
Sanchis Perpiña, V., 1807
Sand, K., 1326
Sanders, G. G., 379
Sanford, H. N., *265
Sansum, W. D., *178
Santenoise, 74,451, 1252
Saracenl, F., 915
Saralegui, J. A., 651
Sarkar, S. L., 1585
Sarles, R., 517, 1402
Sarno, 383
Sarwey, O., 1811
Sas, 157
Satanowsky, S., 382
Sauer, W., 1173
Saurman, J. S., 807
Savignac, R., 517
Savini, E., 913
Sawschinsky, A., 589
Saxl, P., 317, 1325
Scaltriti, A., 154
Scarff, J. E., 2001
Schaber, 1255
Schaefer, V., 2005
Schaeffer, H., 452
Schaferstein, S., 1407
Schaffer, C., 446
Schaly, G. A., 1955
Schamberg, J. F., 716, 1866
Scharpff, W., 1172
Schauder, H., 236
Schechter, M., 236, 1254, 1952
Scheele, K., 2005
Schellong, F., 1736
Schenck, H. P., 1796
Scherescheswsky, N., 1324
Scherf, D., 237
Schiff, E., 1875
Schiff, F., 1736
Schiffmann, J., 1104, 1104
Schil, L., 1872
Schiller, W., 810, 1954
Schilling, V., 1953
Schiaepfer, K., 1795, 1863
Schlapp, W., 233
Schlayer, C. R., 521
Schlesinger, B. E., 1398
Schlesinger, H., 657, 728
Schlesinger, J., 1805
Schliephake, E., 78
Schlueter, S. A., 1651
Schmal, S., 1877, 1877, 1877
Schmid, A. L., 1325
Schmid, F., 1100
Schmidt, H. R., 991
Schmidt, M. S., 313
Schmidt, P., 1591
Schmidt, R., 727
Schmidt, W., 1877, 1877
Schmidt-Weyland, P., 78
Schmieden, V., 1809
Schmite, 1100
Schmitt, E. O. G., *535
Schmitt, W., 659
Schmitz, H. W., 1481
Schmitz-Moormann, P., 1174
Schneider, 1948
Schneider, E., 1103
Schneider, G. H., 384, 918
Schneider, H., 1865
Schneider, H. C., 1654
Schnitzler, J., 659
Schöbl, O., 1727
Schoen, 988
Schoen, R., 1254
Schönduhe, W., 455, 727, 917, 1405, 1491
Schoenheit, E. W., 67
Schoenholz, L., 1325
Schönstadt, 1736
Schofield, A. T., 910
Scholz, 1325
Schonbar, A., 1316
Schoorl, N., 1955
Schott, E., 1175
Schottmüller, H., 384
Schram, D. L., 979
Schreiner, B. F., 1723
Schreiner, K., 455
Schrijver, J., 1955
Schroeder, A. A., *1835
Schteingart, M., 726, 988
Schuback, A., 990
v. Schubert, E., 520
Schubert, G., 1255
Schubert, I., 520
Schukry, J., 78
Schulte, H., 1876
Schulten, H., 520
Schultz, F. W., 1795
Schultz, I. H., 1876
Schultz, W. G., 79
Schulze, F., 1667
Schumacher, F. L., 1159
Schumacher, H., 1667
Schumacher, J., 917
Schuster, H., 1810
Schustrow, N., 1254, 1254
Schut, L. W., 1384
Schwamm, M., 1257
Schwartz, A., 988
Schwartz, E. M., *1905
Schwartz, P., 384
Schwartz, S. F., *1679
Schwarz, E., 810
Schwarz, H., 2006
Schwarz, O., 1325
Schwarz, P., 1666
Schwarzkopff, E., 1492
Scimone, 1587
Scott, A. J., Jr., 977
Scott, E. L., 1318
Scott, J. D., 1399
Scott, W. J., 1243
Scudder, S. A., 71
Seaman, G. E., 1359
Secher, L., 1670
Seelig, M. G., 309
Segall, H. N., 67
Seidel, A., 1865
Seidl, R., 810
Seilchlin, S., 656
Seldowitsch, J. B., 317
Selinger, M. A., *1191
Sellheim, H., 660
Selman, J., *1114
Semelaigne, G., 1488
Semb, C., 1878
Semler, R., 77
Sen, J. C., 654
Sen, P. B., 515
Sendrail, 1489, 1805
Serantes, 656
Serby, A. M., 1161
Serdukoff, M. G., 1803
Serebrijski, J., 78, 1877, 1877, 1877
Serejski, M., 1588
Sergent, E., 380, 656, 808
Severac, M., 907
Severin, J., 1174
Seyfert, W., 1104
Seymour, H. F., 583
Seymour, M., 978
Sézary, 987, 1665
Shanklin, E. M., 694
Shapiro, S., 906, 1654
Sharapoff, B., 910
Sharpe, J. S., 654
Sharpe, W., *532, 1096
Shaw, E. C., 1725
Shaw, H. B., 583
Shaw, H. F., 722, 1398
Shaw, R. C., 986
Shaw, J. W., 1797
Shaw, —, 984
Shay, H. H., 1654
Sheard, C., 68, 1938
Sheffield, H. B., 367
Sheldon, H., 985, 1321
Shelley, H. M., 1739
Shelmire, B., *1428
Shen, J. K., 579
Shepardson, H. C., 69
Sheppard, T., 1864
Sherill, J. W., 1394
Sherishorina, S., 730
Sherman, W. O., *1765
Shibley, G. S., 1800
Shick, B., 1243
Shimoda, M., 227,229
Shinosaki, T., 1877
Shiozawa, S., 982
Shipley, A. M., 1245
Shoemaker, F., 1868
Shohl, A. T., 1243
Shonle, A. I., 1246
Shumaker, P. W., *127
Shuman, J. W., *1127, 1244, *1981
Sibley, W. K., 1485
Sicard, J. A., 586, 725, 987
Sick, K., 1258
Siedamgrotzky, 1254
Sielmann, H., 587
Silberstein, F., 77
Silberstern, E., 158
Silbert, S., *1759
Silcock, F. A. E., 584
Silva, L. L., 1405
de Silva, R., 515
Silverman, D. N., 67, 1319
Silvestri, T., 234
Silwer, H., 1670
Simey, A. I., 231
Simitch, T. V., 1252
Simon, F., 1874

Simon, H., 236, 1669
Simond, A., 1315
Simonds, J. F., 70
Simonin, 1948
Simpson, A. J., 980
Simpson, F. E., *1005
Simpson, W. M., 1943
Singer, E., 657
Singer, G., 659
Singer, H. A., 717
Singer, J. J., 1315
Singer, R., 317, 1256
Sinton, J. A., 1485, 1485
Sippel, P., 729
Sison, A. B. M., 1318, 1942
Sisson, R. J. *1126
Skinner, E. F., 449
Skłodowski, J., 156
Skrjabin, K. I., 1731
Skrotzky, K., 385
Slaughter, W. H., *1607
Slobozianu, H., 990
Slooff, J., 1955
Slye, M., *1599
Small, J. C., 70, 70
Smart, W. A. M., 2003
Smellie, J. M., 1869
Smetana, H., 512
Smillie, W. G., 908, 1243
Smith, A. D., 1483
Smith, A. L., 228
Smith, D. T., 1577
Smith, E. O., 1253
Smith, F., 1944
Smith, F. H., 1863
Smith, F. J., 979
Smith, F. M., 649
Smith, H. H., 1399
Smith, J. F., 373
Smith, J. W., Jr., 150
Smith, L. A., *478
Smith, L. W., 977, 1655
Smith, R. K., 805
Smith, S. C., *1902
Smith, T., 1247
Smith, T. C., 1479
Smith, W., 1096
Smith, W. S., 1797
Smithies, F., 979
Smith-Petersen, M. N., *26 806
Smotroff, V., 1954
Snapper, I., 1952
Sodré, L., 235
Soeken, G., 1407
Solmaru, A., 1949
Sokolova, U., 590
Soler, J., 1656
Solis, F., 721
Solis-Cohen, M., 1244
Sollmann, T., 151, *898
Solomon, C. I., 1245
Solomon, H. C., 1578
Solomon, I., 1732
Solovieff, M., 1408
Somerford, A. E., 516
Sondern, A., 1946
Sonnenfeld, A., 1954
Soper, H. W., 376
Sorgo, J., 1954
Sorochowitsch, 1874
Sosman, M. C., 718
Soula, L. C., 452, 1664
Southam, A. B., 1320
Southard, M. A., *408
Southby, R., 1250
Southgate, H. W., 1484
Souttar, H. S., 1803
Spackman, C. L., 1802
Spät, W., 1491
Spaeth, R. A., 147
Spain, W. C., 1721
Spangler, R. B., 979
Spencer, H. R., 1245
Speransky, A., 1804
Spiller, W. G., *673
Spillmann, L., 725
Spitzy, H., 657
Spivak, J. J., 309
Sprague, H. B., *1909
Spray, R. S., *109
Spriggs, E. I., 73
Springer, M., 1947
Spruth, H. C., 307
Spurr, R., 454, 454
Spyropoulos, N., 1804
Staemmler, 1172
Stahl, R., 384
Stahnke, E., 1875
Stammers, A. D., 153, 653, 1399
Standenath, F., 1869
Standen, H. F., 650, 1656
Stanganelli, P., 916
Stanischeff, A., 1875
Stanojević, 79
Stanton, B. L., 1250
Stargardter, J., 990
Starin, W. A., 1395
Starlinger, W., 588
Starobinsky, A., 1730
Starr, I., Jr., 227, 1096
Stassano, H., 655
Stassen, M., 1401
Steckbauer, J. W., *621
Steenbock, H., 69, 1246, 1246
Stefko, W., 991
Stein, O., 1809
Steinberg, B., 1941
Steinberg, L. D., 659
Steinberg, M. E., 1096
Steinberg, P., 1257
Steinberg, S., 384
Steinberg, U., 1254
Steinbrinck, W., 1407
Steindl, H., 1667
Steiner, B., 158
Steiner, G., 236, 1667
Steiner, H., 1104
Steiner, J., 919
Steinfeld, J., 1667
Steinitz, H., 1235
Steinmetzer, K., 1877
Stengel, A., 2000
Stenhouse, H. M., 1724
Stenström, N., 456, 456, 456
Stenström, W.
Stephan, R., 589, 1952
Stephens, J. G., 653
Stephenson, H. A., 1864
Stepp, W., 78
Stern, A., 454
Stern, E., 1325
Stern, M., 810
Sternberg, H., 1809
Steudtng, O., 1255
Stevens, A. M., *1201
Stevens, F. A., *1110, 1800
Stevens, J. T., 653
Stevens, T. G., 985
Stevenson, L., 1654
Stewart, C. A., *113
Stewart, C. P., 1166
Stewart, F. W., 1479
Stewart, M. J., 310, 1098
Stewart, W. H., 443, 651, 1379
Stich, R., 1810
Stieffel, R., 155, 450, 987, 987
Stier, E., 383
Stifel, J. L., 980
Stiles, G. W., 906
Stillmunkés, A., 1323
Stirling, W. C., *478
Stockard, C. R., *1508
Stoeber, T., 1737
Stoeltzner, W., 384, 990, 1590
Stokes, J. H., *840
Stolz, E., 1256
Stone, H. B., 1317, *1675
Stoner, W. H., 1098
Stookey, B., 1478
Stopford, J. S. B., 233
Stoppato, U., 916
Stout, A. P., 1317
Stowe, W. P., 1097
Stoye, W., 384, 2006
Strada, F., 727
Stradin, P., 1172
Stransky, E., 1407
Stranz, J., 728
Strassmann, P., 810
Straub, H., 1172
Strauch, 588
Strauss, H., 384, 520, 1874
Strauss, J. F., *330
Streblow, K., 1103
Streck, A., 79
Strecker, E. A., 1245
Strecker, F., 918
Stringer, M. S., 1163
Stromінger, 1170
Stuart, G., 514
Stuber, B., 917
Stuchlík, J., 522
Stuhlern, V. R., 78
Stumpf, P., 78
Sturgis, C. C., 1580
Sturm, E., 227
Sturtevant, J. M., *1436
Stutzky, J. J., 1175
Suchanka, F., 1175
Sümegi, S., 237
Sugar, M., 1809
Sugawara, T., 1168
Sunderman, F. W., 571
Sundwall, J., 757
Sunzeri, G., 1734
Supples, G. C., 977
Susman, W., 1166
Sutherland, G. A., 1397
Sutton, A. C., 511
Sutton, D. B., 1319
Sutton, I. C., *346, 1578
Suyenaga, R., 306
Svehla, K., 522
Swartz, E. O., *1518
Sweeney, M. A., 907
Sweet, W. C., 515
Swetlow, G. I., 305, 904, 1652
*1679, 1796
Swezey, A., 1316
Swift, G. W., 514
Swift, H. F., 67, 1096
Swindler, C. M., *1765
Swingle, W. W., 511, 903, 903
Sybrandy, B., 1592
Sykes, K. A. H., 1167
Syllaba, L., 729
Syms, P., *244
Szirmai, F., 1406
v. Szontagh, F., 990
Szteblo, K., 1407
Szucs, E., *946

T

Takahashi, K., 1811
Takaki, J., 384, 1669
Tallerman, K. H., 1398
Talley, J. E., 980
Tallqvist, T. W., 1812
Tammann, 316, 1808
Tanaka, K., 1729
Tanasescu, 75
Tandler, J., R. M., *263
Tannenbaum, N. E., *250
Tannenberg, J., 1589
Tanturri, V., 726
Tapie, 1730
Tardieu, A., 380, 1947
Tashiro, K., 1168, 1168
Tateyama, R., 158
Tatum, E. L., 307
Tauber, K., 456
Taubmann, G., 77, 1254
Tawse, H. B., 1585
Taylor, S., 1378
Taylor, F. E., *523
Taylor, J., 1944
Taylor, K. P. A., *191, 1483
Tchebotareva, I., 385
Tcherkes, L., 1104
Tcłang, D. M., 1870
Tella, 1871
Telson, D. R., *1347
v. Tempsky, 1875
ten Berge, B. S., 991
Tenbroeck, C., 1800
ten Doornkaat Kooiman, M., 1953
Tengbergen, J. Van E., 1592
Tengwall, E., 730
Tenney, C. F., 1654
Teplitz, M. M., 305
Terra, F., 518
Terrasse, J., 1949
Terrien, F., 1488
Terwen, A. J. L., 158, 158
Teutschlaender, 1810, 1810, 1810
Tewksbury, W. D., 446
Tezner, O., 728, 2006
Thacher, C., 1159
Thacker, G., 653
Thannhauser, 1255
Thatcher, H. S., 716, 979
Thearle, W. H., *811
Theller, M., 1724
Theron, R., 1728
Thévenard, 1251
Thewlis, E., 1482
Thierens, J. P., 1321
Tholen, M. H. G. A., 1592
Thomas, A., 586
Thomas, B. A., *1957
Thomas, C., 72, 71, 907
Thomas, G. J., 71, 907
Thomas, H. M., Jr., 1319
Thomas, W. A., *1333
Thompson, C. G., 148
Thompson, H. C., 70
Thompson, L. R., *1437
Thomsen, E., 1956
Thomson, A. N., 64
Thomson, J. G., 985, 1661
Thomson, J. E. M., *1517
Thomson, M. J., 449
Thomson, St. C., 904
Thorek, M., *33
Thurlow, S., 70
Thurston, J. A., 229
Tice, F., 1151
Tichý, J., 1175
Tigerstedt, C., 1492
Tillier, R., 1487
Timme, W., 1863
Timpano, P., 1403
Tinel, J., 518
Tinozzi, F. P., 238
Tisdall, F. F., 445, 445
Titus, N. E., *261
Titus, P., 969
Titus, R. W., 1246
Tixier, L., 452
Tobé, F., 1949
Tobey, G. L., Jr., 718
Tobias, J. W., 76, 1102
Tobler, W., 586
Todd, A. T., 231
Todd, T. R. R., 1945
Tolstouhov, A., *181, *1116
Tománek, F., 456
Tomb, J. W., 312, 1585
de Toni, G., 2005
Tonnet, 1731
Torek, F., 905
Toriumi, 1811
Torres, M., 1951
Tory, H. M., 630
Toscano, C., 2005
Tottenham, R. E., 230
Toumanoff, 313
Tournade, A., 74
Tousey, S., *527
Toverud, K. U., 238, 1258, 1661
Tower, L. E., *1112
Towne, E. B., 717, 1579
Townsend, M. L., 1867
Tramer, M., 1805
Trask, J. D., 307
Traub, H. W., 305
Traugott, M., 1591
Traunet, R., 520
Traut, H. F., *339
Trentini, S., 1805
Trigher, I., 986
Trocello, E., 985
Troell, A., 314, 660, 1670
Tron, G., 915
Tronconi, S., 916
Trossarelli, A., 1666
Trotter, W., 1166
Trout, H. H., 301
Truesdell, C., 1797
Tscherning, R., 158, 1952
Tso, E., 1398
Tsykalas, 919
Tucker, G., 904
Tuffier, 233
Tuft, L., 1866
Tulloch, W. J., 1168, 1663
Tumpeer, I. H., *267, 977
Tunnicliff, R., 906, 1801
Tur, A. F., 521
Turolt, M., 1878
Turpin, R., 234, 585, 724
Tweedy, W. R., 1798
Tyler, A. F., 806
Tyler, M., 448
Tzanck, 1252

U

Ucrós, R., 1588
Ugón, A. A., 1950
Ugón, V. A., 156
Ullrich, 1955
Ullmann, H., 1589
Ullmann, H. J., 306
Ulrici, H., 1589
Underhill, F. P., 448
Unger, R., 1874
Urbain, A., 808, 1322
Urech, E., 1733
Urrets Zavalía, A., 727

V

Vaccarezza, R. F., 76, 1735
Valerio, A., 1102, 1950
Vallery-Radot, Pasteur, 380, 1949
Vallino, 2005
Valls, H., 157
Valls, J., 1807
Valtancoli, G., 916
Vallis, J., 233, 656, 1948
Valude, E., 154
Vâna, A., 729
Van Allen, C. M., 1097
Van Andel, M. A., 80
van Bemmel, C., 1811
Vancea, P., 1665
Vančura, 79
van den Hoven van Genderen, J., 1955
VanderHoof, D., 649
Van der Hoog, 1670
Van Dessel, A., (Boston), 806
Van Dessel, A., (Louvain), 1486
van de Velde, T. H., 1592, 1738
van Dongen, J. A., 318
van Gils, J. B. F., 1592
van Leersum, E. C., 1492, 1670
van Leeuwen, W. S., 1809, 1953
van Lier, J. L., 660
van Putte, P. J., 992
Van Rijnberk, G., 80, 1492
Van Slyke, D. D., 1580
Van Wulfften Palthe, P. M., 546, 1163
Van Wyck, H. B., 978
Varlot, G., 74
Varó, B., 1104
Vas, J., 589
Vasilieva, E., 1955
Vatcher, S., 1485
Vaughan, K., 1320
Vayola-Coco, 156
Veber, F., 1252
Vecki, M., 1726
Vell, C., 987
Vell, W. H., 587
v. d. Velden, R., 918
Veldhuyzen, 80
Velo, C. A., 1403
Verain, 1948
Verbrugge, J., 157, 718
Verge, F., 76
zur Verth, 1175
Vibert, 987
Vicuña, H., 1951
Vidal Fraxanet, 382
Vidal Jordana, G., 586
Vigevani, E., 453
Vilardell, J. M., 1101
de Vilda, S., 76
Villaret, M., 155, 1664
Villegas Ruiz, 157, 519
Vincent, S., 233, 312
Viner, N., 225
Vinzent, R., 1488
Violle, P. L., 155, 2004
Vipond, A. E., 1661
Vischer, C. V., *1615
Visher, H. W., 67
Visscher, M. B., 1798
Viteri, L. E., *684
Vitón, A., 1405
Vitón, J. S., 235, 1734
Vivian, C. S., *23
Vogel, W., 1492
Vogeler, K., 1669
Vogt, A., 1873, 67
Vogt, E., 159, 729, 1808
Vogt, M. E., 148
Vogtherr, K., 1104
v. Volborth, G., 1657
Volhard, F., 728
Volk, G., 1172
Volkmann, K., 659, 1952
Vollenweider, P., 381
Vollers, W., 237, 1809
Vollmer, H., 78, 658, 1401, 1877, 1877
Vonessen, 237
Von Glahn, W. C., 1479
von Oettingen, W. F., *898
von Wachenfeldt, S., 1255
Vos, 80
Vuillaume, H. J., 988
Vvedensky, K., 590

W

Wada, K., 231
Waddell, J. B., 720
Waddell, K. C., 1725
Wade, H. W., 721
Wadsworth, J. Y., 1654
Wagener, E. H., 1866
Wagner, H., 1256
Wagner, R., 990, 1589
Wagner-Jauregg, J., 79
Wahl, H. R., *1125
Wahlberg, 1104
Wainwright, J. M., 1642
Waite, F. C., 1136
Waithen, L. E., 1812
Waldbauer, O., 809
Waldbott, G. L., 149
Waldo, J. H., 1246
Waldorp, F., 1734
Walker, A., 1484
Walker, A. W., 1580
Walker, E. L., 907
Walker, J. E., 1395, 1482
Walker, J. L., 1099
Walko, K., 1174
Wallace, H. K., 374
Wallace, W. J., 1726
Wallgren, A., 318, 1256, 1492
Walpert, B. E., 978
Walser, 1664
Walter, F. J., 1714
Walter, F. K., 1876
Walters, W., *186
Walther, H. W. E., 1163
Walton, D. C., 1654
Walzel, P., 520, 1808
Warburg, O., 384
Ward, E. P., 150
Ward, F. W., 2002
Ward, G. E., 1806
Ward, W. Y., 137
Warfield, L. M., 218, 1160, 1937
Warnshuis, F. C., *469, 1290
Warren, S., 718, 1479
Warren, S. L., 148
Warthin, A. S., 717
Wason, I. M., *1332
Wassermann, A., 991
Wassing, 719
Wassink, W. F., 1669
Waterhouse, H. F., 723
Waterman, N., 653
Watrin, J., 725
Watson, E. M., 1250
Watson-Williams, P., 722
Wauchope, G. M., 73
Waucomont, R., 585
Waugh, G., 231
Waugh, T. R., 1160, 2002
Wearn, J. T., 448
Weatherwax, J. L., 70
Webb, J. B., 229, 904
Webb-Johnson, A. E., 311
Weber, F. A., 590

Weber, F. P., 983
Webster, J. H. D., 1321
Wechsler, I. S., 447
Weed, A. M., 1728
Weglowski, R., 1491
Wehefritz, E., 519
Weichbrodt, R., 77
Weidlein, I. F., 1651
Weidman, F. D., 571
Weil, A. J., 521
Weil, H., 2006
Weil, M. P., 1804
Weil, P. E., 155, 450, 987, 987, 1169
Weiler, E. S., 727
Weil-Hallé, B., 724
Weiller, P., 517
Weill-Spire, 724
Weingarten, R., 1666
Weirauk, H. V., 1727
Weiskopf, S., 1480
Weiss, R., 72
Weiss, S., 1580
Weissenbach, R. J., 1401
Weissenberg, S., 1407
Weissman, M. L., *1597
Weisz, E., 1952
Weitz, W., 237, 455, 1809
Weitzner, G., 455
Welker, W. H., *1333
Wells, G. W., 1580
Weltz, 588
von Wendt, D., 160
von Wendt, G., 384
Wendt, H., 918, 1407
Wenner, W. E., 903, 903
Werley, G., 229
Werner, G., 987
Wertheimer, P., 725
Wertheimer, R., 385
Wessely, K., 588
Westerborn, A., 1807
Westphal, A., 454
Wetterwald, M., 1591, 1732
Wetzel, N. C., 1482
Wexler, H., 1795
Wheatland, F. T., 1663
Wheeler, R. R., 981
Wheelon, H., 69, *326
Whelan, M., 1863
Wherry, W. P., 904
Whipple, A. O., 1576, 1660
Whipple, G. H., 367
Whitaker, L. R., *239, 1654
Whitby, L. E. H., 1099, 1321
Whitcher, B. R., 67
White, A. C., 986
White, G. F., 1316
White, P. D., 67, 148, 649, 1159, 1792
White, R. G., 1099
White, R. R., 1396
Whiteford, C. H., 152
Whitman, A., *926
Whitman, R. C., 1799
Whyte, B., *1119
Wichels, P., 521, 522
Widal, F., 516
Widerøe, S., 920
Wiechmann, E., 1171
Wiedemer, C., 445
Wiedhopf, O., 78
Wieland, E., 1872
Wieloch, J., 159
Wiese, O., 1174
Wigand, R., 1737
Wiggers, C. J., 649
Wigham, T. J., 1662
Wightman, O. S., 65
Wijsenbeek, 727
Wilcox, H. B., *1514
de Wilde, P. A., 318
Wildegans, H., 1254
Wilder, R. M., *1107, 1867, 2000
Wile, U. J., 1724
Wilens, G., 977
Wilensky, A. O., 1245
Wiley, H. W., 1306
Wilkie, D. P. D., 311
v Willebrand, E. A., 1812
Willems, C., 585
Williams, C., 309
Williams, C. M., 376
Williams, E., 511
Williams, J. R., 1721
Williams, J. T., 650
Williams, T. H., 582
Williamson, A. B., 583, 1166
Williamson, B., 1398
Williamson, G. S., 2003
Williatte, P., 1169
Willich, C. T., 1875
Willimott, S. G., 1398
Willis, A. M., 581, 1659
Willis, H. S., 1794
Willkomm, L., 455
Willstätter, R., 588
Wilmer, H. B., *942
Wilson, A., 148
Wilson, D. W., 70, 70
Wilson, G., *619, *1424, 1724
Wilson, G. S., 2003
Wilson, H. E. C., 1398
Wilson, J. A., 1725
Wilson, J. R., 1479
Wilson, J. St. G., 1321
Wilson, L. B., 1218
Wilson, R. B., 717
Wimmer, A., 160
Winchester, J. W., 584
Wingfield, R. G., 723
Winkelman, N. W., *619, *1424, 1724
Winocur, 1405
Winslow, C.-E. A., 57
Winslow, N., 303
Winterstein, H., 1876
Winther, 386
Wintz, H., 1944
Wise, F., *86, *1409
Witherspoon, J. A., 719
Witherspoon, M. G., 1654
Wittenberg, 237
Wittgenstein, A., 1490
Wittkower, E., 1256
Wittkowsky, C., 1736
Wodak, E., 315, 1808
Wohlfahrt, S., 1175
Wohlgemuth, J., 1874
Wolbach, S. B., 717
Wolf, C. G. L., 1662
Wolf, J. E., 159
Wolf, M., 74, 1486
Wolf, R., 158
Wolfer, J. A., 719
Wolfer, L., 1590
Wolff, L. K., 522, 1592
Wolff, M., 450
Wolfsohn, J. M., *1828
Wolfson, M., 1725
Wolowik, A. B., 589
Wood, F. C., 70
Wood, J. A., *104
Woodruff, S. R., 1942
Woodwork, A. S., 1485
Woolsey, J. H., *1612
Work, H., 1357
Worringen, K. A., 2006
Wotke, E., 316
Wright, C. S., 376
Wright, H. D., 1098
Wright, R. W., *1271
Wurtzel, G. L., *680
Wyckoff, H. A., 1723
Wyder, T., 914
Wyllie, W. G., 911, 1397, 1869
Wyman, E. T., 981
Wynn, J., *820
Wynne, H. M. N., 1726

Y

Yacoel, J., 1730
Yaguda, A., 1795
Yankauer, S., 905
Yarisawa, C., 1946
Yarotzky, A., 451
Youmans, J. B., 1160
Young, A. M., *928
Young, A. G., 1725, 1725
Young, C. C., *1340
Young, F. H., 379
Young, H. H., 982, 1724
Young, M., 1662
Yovanovitch, A., 988
Yugenburg, A., 160

Z

Zabludowski, A., 385
Zacharias, E., 1590
Zacks, D., *598
Zadik, P., 78
Zadoc-Kahn, L., 155
Zahorsky, J., *112, 1581
Zahradníček, J., 456
Zak, E., 237, 237
Zamorano y Páramo, A., 1490
Zanardo, J., 809
Zange, J., 1954
Zanoli, R., 156, 1403
Zborowski, H., 1402, 1953
Zdansky, E., 317
Zebrowski, E., 1737
Zeckwer, I. T., 1317, 1479
Zeiler, A. H., 977
Zeitlin, L., 1255
Zerbino, V., 916
Zickgraf, G., 1408
Ziegler, E., 914
Ziegler, M. R., 1795
Ziegler, O., 1875
Ziegler, S. L., *399
Zieler, K., 918
Zingher, A., 136, 977
Zlatogoroff, 1590
Zoeller, C., 74, 155, 914, 1099, 1323, 1586
Zondek, B., 454, 520, 1589
Zubiran, S., 1580
Zuccarini, 1171
Zuccola, 915, 2005
Zuckermann, C., 157
Zutschi, M., 72
Zweifel, E., 660
Zweifel, P., 159

INDEX TO PAGES

OF THE JOURNAL, ACCORDING TO WEEKLY ISSUES—VOLUME 86, JANUARY-JUNE, 1926

Pages	No.	Date	Pages	No.	Date	Pages	No.	Date	Pages	No.	Date
1— 80	1	Jan. 2	523— 590	8	Feb. 20	1105—1176	15	Apr. 10	1593—1670	21	May 22
81— 160	2	Jan. 9	591— 660	9	Feb. 27	1177—1258	16	Apr. 17	1671—1738	22	May 29
161— 238	3	Jan. 16	661— 730	10	Mar. 6	1259—1326	17	Apr. 24	1739—1812	23	June 5
239— 318	4	Jan. 23	731— 810	11	Mar. 13	1327—1408	18	May 1	1813—1878	24	June 12
319— 386	5	Jan. 30	811— 920	12	Mar. 20	1409—1492	19	May 8	1879—1956	25	June 19
387— 456	6	Feb. 6	921— 992	13	Mar. 27	1493—1592	20	May 15	1957—2066	26	June 26
457— 522	7	Feb. 13	993—1104	14	Apr. 3						